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Washington, D. C. Issued May 1952

TROPICAL BEEF CATTLE INDUSTRY IN THE WESTERN HEMISPHERE

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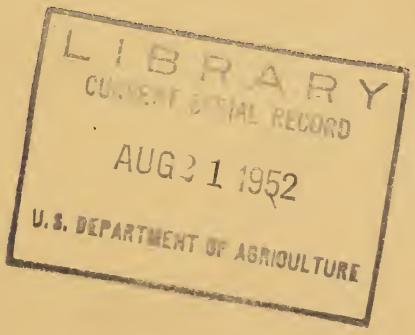

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PREFACE

This bibliography consists of selected references, chiefly in the English, Spanish and Portuguese languages, to the literature on the beef cattle industry in the Tropics and the humid sub-tropical regions of the Western Hemisphere. Countries included are Brazil, Colombia, Ecuador, Peru, the Guianas, El Salvador, Costa Rica, Guatemala, Honduras, British Honduras, Panama, Mexico, Cuba, and the West Indies. Florida, and the coastal portions of Alabama, Georgia, Louisiana, Mississippi, and Texas have been included as has Hawaii, which, although it is in the Eastern Hemisphere, is an American dependency. Paraguay and Bolivia have been omitted because due to elevation and situation the climatic conditions are quite different from those in the humid Tropics.

The literature here listed appeared for the most part between 1940 and 1950. Although a few references from 1951 have been included, no attempt has been made to cover that year systematically.

The bibliography includes within its scope the economics of the industry, the breeds adapted to warm humid climates, the care and management of beef cattle in the Tropics, feeding and nutrition, diseases and parasites, and, because of the great importance of this subject to the rancher and breeder, pastures, and forage plants. The arrangement is by broad subject, with arrangement within a subject alphabetical by author. When a publication treats of more than one subject, it has been classified either in a general section or with one or another subject without being repeated under all. For example, references on diseases caused or transmitted by parasites have been placed with the parasite, since, in most cases the emphasis is on the parasite rather than the disease.

An index brings out all important subjects discussed in each publication and includes also names of authors, editors and translators.

Grateful acknowledgement is made of the assistance of Dr. S. H. Work, formerly of the Office of Foreign Agricultural Relations and the Office of Experiment Stations, now Agriculture Officer in the Washington office of the Food and Agriculture Organization of the United Nations, who advised in the planning of the bibliography and reviewed the classification and references.

Most of the publications listed are available in the Library of the United States Department of Agriculture, the call numbers of which have been included as part of the reference. Locations of copies of titles not here available are given whenever possible. Items not examined are marked with an asterisk.

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order. UNESCO book coupons may be used also. U. S. Department of Agriculture Library coupons valued at $1.00 each may be ordered in any quantity.

SOURCES CONSULTED

Card catalogs:

U. S. D. A. Library.
Library of Congress.
Pan American Union.
U. S. Institute of Interamerican Affairs.
U. S. D. A. Experiment Station and Extension Service special catalogs.

Bibliographies and indexes:

Agricultural index, 1939-1945.
Bibliography of agriculture, 1943-May 1951.
U. S. D. A. Index to publications of the U. S. D. A., 1940-1943.

Serials:

Publications of the Agricultural Experiment Stations and the Extension Service in Hawaii, Puerto Rico and the states concerned.
Approximately 50 journals, chiefly livestock journals, of the countries concerned.

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GENERAL

1. CONFERENCE OF COMMISSIONS OF INTER-AMERICAN DEVELOPMENT, 1ST, NEW YORK, 1944. Reports presented to the Conference of Commissions of Inter-American Development (held in New York, May 9-18, 1944). 2 v. Washington, D. C.,1945-46. 280.9 C7693

Contents: Central America, by the Costa Rican, Salvadorean, Guatemalan, Honduran and Nicaraguan commissions of inter-American development, Cattle [Costa Rica] p.37-40; Ecuador, by the Ecuadorian commission of inter-American development, Livestock industry p.30-35.

2. MASEFIELD, G. B. A handbook of Tropical agriculture. Oxford, Clarendon Press, 1949. 196 p. 38 M37

Partial contents: Ch. 21, Fodder crops; Ch. 26, Cattle types and management; Ch. 27, Dairying and other cattle products; Ch. 30, Pasture management; Ch. 24, Insects and other pests of tropical crops; Ch. 25, Special pests and parasites. Chiefly concerned with Africa, but tropical regions of the Western hemisphere are also included.

Adaptation

3. CHIEFFI, A. A importância dos fatores ambientais na exploração dos bovinos. Rev. de Agr. [Piracicaba] 25:263-282. Ref. Sept./Oct.1950. 9.2 R324

The importance of environmental factors in the raising of cattle.

4. DAVIDSON, H. R. Our cattle in the Tropics; important research work to test suitability of live stock for resistance to conditions in hot countries. Farmer & Stock-Breeder 62:3012-3013. Dec.28,1948. 10 F228

Activities at the Hannah Research Institute for breeders of the British Commonwealth.

5. GAALAAS, R. F. Effect of atmospheric temperature on body temperature and respiration rate of Jersey cattle. J. Dairy Sci. 28:555-563,illus. July 1945. 44.8 J822

6. GAALAAS, R. F. A study of heat tolerance in Jersey cows. [Jeanerette, La.] J. Dairy Sci. 30:79-85. Feb.1947. 44.8 J822

Tolerance is affected more by age than stage of lactation or gestation, so might apply to beef.
Conclusions indicate a definite variation in different age groups.

7. GAZTAMBIDE ARRILLAGA, C., MILLER, R. C., and HENNING, W. L. The effects of environmental temperature and relative humidity on the acclimation of cattle in the Tropics. (Abs.) J. Anim. Sci. 9:678. Nov.1950. 49 J82
Puerto Rico.

8. HAMMOND, J. 'Constitution' in cattle in relation to pests and diseases. Ann. Appl. Biol. 32:278. Aug.1945. 442.8 An72
Mainly in connection with adaptation of European cattle to the Tropics.

9. LEE, D. H. K., and PHILLIPS, R. W. Assessment of the adaptability of livestock to climatic stress. J. Anim. Sci. 7:391-425, illus. Ref. Nov.1948. 49 J82

10. MINETT, F. C. Effects of artificial showers, natural rain and wallowing on the body temperatures of animals. J. Anim. Sci. 6: 35-49,illus. Feb.1947. 49 J82
Experiments cover effects of artificial and natural rain on certain types of cattle in India.

11. MITSCHERLICH, E. Weidehygiene in den ariden und semiariden gebieten der warmen länder. Deut. Tropmed. Z. 48:68-79. Ref. Feb./Mar.1944. 449.8 Ar22

12. PHILLIPS, R. W. Adaptability of cattle to tropical and subtropical climates. Cattleman 33(1):16-17,29,32,36-37,illus. Ref. June 1946. 49 C29

13. PHILLIPS, R. W., BAKER, A. L., and BLACK, W. H. New developments in the breeding of cattle adapted to tropical and subtropical climates. (Abs.) J. Anim. Sci. 5:394. Nov.1946. 49 J82

14. REIS, J. L. M. Aclimatação e premunição de bovinos importados. Rev. de Agr. [Piracicaba] 22(1/3):70-72. Jan./Mar.1947. 9.2 R324
Adaptation.

15. RHOAD, A. O. Climate and livestock production. U. S. D. A. Ybk. 1941:508-516,illus. Ref. 1 Ag84Y
Basic principles; considerable data on tropical adaptation of beef cattle.

16. RHOAD, A. O. The Iberia Heat Tolerance Test for cattle. Trop. Agr. [Trinidad] 21:162-164. Sept.1944. 26 T754
Research carried out at the Iberia Livestock Experiment Farm, Jeanerette, La.

17. RHOAD, A. O. El mejoramiento del ganado vacuno de carne y de leche en la América tropical. Rincón Campesino 6(57):18-23,illus. Aug.1945. 8 R47

18. RHOAD, A. O. A scale of heat tolerance for cattle. (Abs.) J. Anim. Sci. 1:85-86. Feb.1942. 49 J82
Describes what later became known as the Iberia Heat Tolerance Test, developed at the Iberia Livestock Experiment Farm, Jeanerette, La.

19. RICE, [J. E.?] La aclimatación de ganado bovino importado en los países tropicales. Hacienda 35:312. Aug.1940. 6 H11
Cuba and Texas mentioned.

20. ROBERTS, G. A. A necessidade de formar novas raças. Vida Rur. e Econ. 5(10/11):37-38. Oct./Nov.1943. 9.2 V662
Discusses adaptation of cattle to climate.

21. RUIZ MARTINEZ, C. Climatologia zootecnica. Carácas, Ministerío de Agricultura y Cría, 1947. 50 p. 40 V552
An analysis of literature on the adaptation of livestock to climate.

Includes material on beef breeds.
Based on the work and publications of J. B. Villares.

22. SEATH, D. M., and MILLER, G. D. The relative importance of high temperature and high humidity as factors influencing respiration rate, body temperature, and pulse rate of dairy cows. J. Dairy Sci. 29:465-472,illus. Ref. July 1946. 44.8 J822
Reactions to humidity and temperature seem basic and would apply to beef cattle.

23. VILLARES, J. B. Climatologia zootécnica. I-IV,VI,IX. I-IV. Rev. de Indús. Anim. 9(2/3):3-19; (4):7-33; 10(1):60-86; (3/4):3-26,illus. Ref. Apr./July, Oct.1940, Jan.1941, Oct.1941. 49 R324
VI, IX. Rev. Rur. Bras. 26(315):68-75; 24(349):66-74,illus. Nov. 1946, Nov./Dec.1949. 9.2 B733
Contents: I, Consideraçoes gerais; II, Os valores hemométricos como índice de aclimaçao do Bos taurus; III, Contribuiçao ao estudo da resistência e susceptibilidade genética dos bovinos ao Boophilus [Annulatus] microplus; IV, O valor da termometria na aclimaçao genética do gado bovino; VI, Influência dos fatores climáticos sôbre a instabilidade da produçao animal nos trópicos; IX, Aspectos da produçao de carne em certas zonas tropicais.
V not located, VII and VIII on dairy cattle.

South America

24. ASOCIACION COLOMBIANA DE INGENIEROS AGRONOMOS. SECCIONAL DE ANTIOQUIA. COMITE DIRECTIVO. Compañia Abastecedora de Carnes S. A.; influencia que ejercera sobre la ganaderia antioqueña. Agr. Trop. 1(12):15-19. Jan.15,1946. 26 Ag8

25. BRITO, O. DA S. Pecuária do Brazil central; contribuição ao estudo da defeza de sua economia. B. de Indús. Anim. 10(3/4):121-140. Oct.1941. 49 R324
Covers beef cattle, including slaughtering statistics.

26. BRITO, O. DA S. A pecuária do Brazil Central e sua produção de bovinos de corte. B. de Indús. Anim. 13(1/2):7-16. Jan./Apr.1944. 49 R324
Includes statistics, giving figures covering some phases of the industry from 1933 through 1943.

27. DAVIS, F. E. Cattle trailing in Mato Grosso. Agr. Amer. 6:23-26. Feb.1946. 1 F752A
Describes ranching practices, selection, and driving of cattle to the fattening pastures in the State of São Paulo. Indobrazil type is considered the most desirable.

28. DAY, R. L. Highlights of South American weather. Agr. Amer. 5:169-172. Sept.1945. 1 F752A

29. FREITAS, H. DE. Aspectos da produção animal na Baia. Brazil. Min. da Agr. B. 30(4):7-27. Apr.1941. 9.2 Ag83
The cattle industry, including statistics.

30. GALAN GOMEZ, M. Geografía económica de Colombia. Tomo VIII - Santander. Bucaramanga, Colombia, Dirección Nacional de Estadística, Contraloria General de la Republica, 1947. 646 p. 278.165 C71
Ganadería bovina, p.428-442.

31. GRASES, P. Contribución a la bibliografia Venezolana de temas agropecuarios. Carácas, Ministerío de Agricultura y Cría, 1943. 176 p. 241 G76
Partial contents: Ch. 2, Ganadería y cría; Ch. 4, Industrias agricolas y pecuarias.
No references are on beef cattle directly but items on the cattle

industry, pests, diseases and pastures would be useful.

32. GUIMARAES, M. M. Os concursos de bois gordos de 1950 revelam superioridade da pecuária de corte da Noroeste sobre a do vale do Rio Grande. Rev. dos Criadores 21(10):4-7,illus. Oct.1950. 43.8 R32

Fat steer shows of 1950 disclose the superiority of beef cattle from the [Brazilian] Northwest over those of the Rio Grande Valley.

33. GUZMAN, P. Sobre el porvenir de la ganadería en Colombia. Rev. Nac. de Agr. 31:741-751. Dec.1935. 9.4 R32

Includes beef cattle.

34. HAYDON, G. L. Cattle of Colombia; methods used by one of our southern neighbors. Cattleman 16(12):32-35. May 1930. 49 C29

Gives a general picture of the country's beef cattle industry.

35. HORN, E. F. Ganadería del Brasil. Rev. Ganad. [Habana] 8(2):17-19,54,illus. Feb.1948. 49 R321

36. HORN, E. F. La industria ganadera en el Brasil. Ganad. de Bolívar 11(75):14-17. May 1947. 49 G152

37. HUNNICUTT, B. H. Brazil looks forward. Rio de Janeiro, Serviço Gráfico do Instituto Brasileiro de Geografia e Estatística, 1945. 522 p.,illus. Ref. 125 H89

Covers climate, statistics, scientific institutions and their discoveries, such as that concerning blackleg, p.429. The discussion of beef cattle, p.159-167, includes material concerning the Zebu, Indobrazil, and the use of molassesgrass and Rhodesgrass for pasture improvement.

38. JACOME, G. A. Observaciones de un ganadero. Rev. Nac. de Agr. 39(493):50-53,illus. Nov./Dec.1945. 9.4 R32

Cattle in Colombia.

39. LORETO, F. DE A. Proyecto de ubicación, conservación e intensificación de las explotaciones de ganado de carne y de leche en las diferentes regiones del país. Venezuela. Dir. de Ganad. B. de Inform. 2(1/12):97-100. July 1948/June 1949. 49.9 V55

Chiefly plans for the improvement of the cattle industry.

40. MOORE, O. The cattle industry of Colombia. Foreign Agr. 9:150-156. Oct.1945. 1.9 Ec7For

Includes statistics. The Romo-Sinuano and the Costeño con Cuernos are described as the best native breeds for beef.

41. OCHOA, F. El ganado de raza en los climas medios [de Colombia]. Rev. Nac. de Agr. 37(477):81-87,illus. Mar.1944. 9.4 R32

The question of meat or milk is discussed. Blanco-Orejinegro breed, treatment of diseases and adaptation to climate are other subjects treated.

42. OLIVA, G. Problemas de la ganadería nacional. Sementera (ser.2),3:55-56. Sept.1945. 9.5 Se5

Cattle in Ecuador.

43. OLIVEIRA, A. C. DE. Aspéctos econômicos da pecuária paulista. II. Os gados de córte: análise estatística e fatoração econômica. Rev. de Indús. Anim. 9(4):128-150. Ref. Oct.1940. 49 R324

Covers cattle, including statistics on slaughtering.

44. PACHECO GARMENDIA, H. Panorama de ganadería de carne en las zonas de Jaén y Bagua. Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad. 2(6):29-31. Sept.1948. 49.9 P433

45. SERVICIO COOPERATIVO INTER-AMERICANO DE PRODUCCION DE ALIMENTOS (SCIPA). Livestock situation in Peru; Livestock activities of SCIPA. Serv. Coop. Interamer. de Prod. de Alimentos. Rpt. E-1/2, 37 p.,illus. June 1947. 173.3 In83Li

Issued with outside cover: Institute of Inter-American Affairs.

Food Supply Division. A Special Report: Livestock in Peru, including a description of SCIPA'S cattle import program. Washington, June 1947.

Partial contents: E-1, Climatic conditions; Diseases; Insects and parasites; Nutrition; Management; Markets, transportation and labor; E-2, Importation of cattle; Quarantine stations; Appendix, Immunization against anaplasmosis of SCIPA-imported cattle, by V. D. Stauffer. [Analyzed.]

Concerns cattle chiefly.

46. U. S. INSTITUTE OF INTER-AMERICAN AFFAIRS. FOOD SUPPLY DIV. Agricultural progress in Peru; summary report, 1943-1949, of the Servicio Cooperativo Inter-Americano de Producción de Alimentos (SCIPA) and the IIAA Food Supply Party in Peru. Washington, 1950. 36 p.,illus. 173.3 In83Agp

Partial contents: Background on Peru, p.1-5; The IIAA - SCIPA Program: Livestock improvement, p.17-19; Development of the livestock industry, p.28-29; Meat packing, p.30-31.

Largely applicable to cattle.

47. WIELAND, G. La explotación vacuna en las provincias de Lucanas y Parinacochas [Peru]. Vida Agr. [Lima] 21:585,587,589, 591-592. July 1944. 9.8 V66

48. WYLIE, K. H. The agriculture of Colombia. U. S. D. A. Foreign Agr. B. 1, 160 p. 1942. 1 F752F

Cattle, p.116-123. This is about the cattle industry, chiefly for beef. Breeds, pests, care and feeding are discussed.

Central America

49. AGUILAR G., J. I. Apuntes elementales de ganaderia tropical. Guatemala, Tipografía Nacional, 1940. 300 p.,illus. 40 Ag9

50. CELIS ARENAL, A. Mejoramiento del Ganado bovino en nuestras zonas tropicales. [El Salvador]. Rev. Ganad. [San Salvador] 6(76/77):7-10. Mar./Apr.1946. 8 R3292

Beef and dairy cattle.

51. MIDDLE AMERICAN INFORMATION BUR. Middle America is improving it's livestock [cattle]. Coastal Cattleman 11(9):25-26. Nov.1945. 43.8 C63

52. QUATE, G. S. Beef production in Guatemala. Amer. Brahman J. 2(1):8-9; (2):11-14,illus. Apr.-May 1947. 43.8 Am33

53. PAN AMERICAN SANITARY BUR. VETERINARY SURVEY GROUP. Report of Veterinary survey, Republic of Costa Rica. 21 p. Feb.1945. Pan Amer. Sanit. Bur. Libr.

Typewritten.

A translation with title: Estudio veterinario de la República de Costa Rica. In Rev. de Agr. [San José] 17:461-464,498-502,539,541, 543. Sept.-Nov.1945. 8 Es1

Includes general information as to the country and its cattle industry, especially the diseases of cattle.

54. SQUIBB, R. L. Mejoramiento ganadero en Guanacaste. Hacienda 40:234-237,illus. May 1945. 6 H11

Cattle in Costa Rica.

55. WORK, S. H., and SMITH, L. R. The livestock industry of Nicaragua. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. 12, 49 p. 1946. Ref. 1.943 F763

Partial contents: Forage crops, p.9-13; Cattle, p.13-26.

Mexico

56. ALBA, J. DE. The livestock industry of Mexico. Pt.3-4.

Cattleman 30(1):13-14,36-37; (5):27,29,illus. June,Oct.1943. 49 C29
Pt. 3. Meat in Mexico. Covers the cattle industry in general and includes statistics; Pt. 4. The Charolaise breed in Mexico. Discusses its adaptability under semi-tropical and tropical conditions.

57. ATRISTAIN, G. Breve historia del ganado vacuno en México. Rancho 2(5):10-11,13; (6):58-59; (7):36-37,78; (8):22-23; (9):63-64,78. Mar.-July 1946. 8 R15R
Includes beef cattle.

58. JOHNSON, E. H. Mexico's cattle industry. Agr. Amer. 4: 103-106,116. June 1944. 1 F752A
Also in Cattleman 31(6):64,88-89,91. Nov.1944. 49 C29
It is stated that the text is based largely on a report submitted by M. G. Smith, of the United States Embassy at Mexico City, See No.61.

59. MEXICAN COMMISSION OF INTER-AMERICAN DEVELOPMENT. Mexico. Conf. Comns. Inter-Amer. Devlpmt. Rpts. 1, (9), 63 p. 1944,pub.1946? 280.9 C7693
Cover-title.
Translation from the Spanish original.
General information on the country.

61. SMITH, M. G. The Mexican beef-cattle industry. Foreign Agr. 8:241-265. Nov.1944. 1.9 Ec7For
Statistical tables give different aspects of the industry.

62. YUCUTÁN. DEPT. DE GANADERÍA DE FOMENTO. La hacienda ganadera "San Antonio", confirma la posibilidad de que la industria ganadera en Yucatán, sea un hecho. Fomento 1(12):13,20. Oct.1944. 8 F734

United States

63. ALABAMA POLYTECHNIC INSTITUTE. EXTENSION SERV. Handbook of Alabama agriculture. Ed. 3. Auburn, 1941. 414 p.,illus. 275.2 AL1Ha
Partial contents: Crops, pastures, fertilizers, by J. C. Lowery, J. C. Frink, and J. T. Belue; p.17-115; Beef cattle, by W. H. Gregory, p.200-207.

64. ARBOUR, M. B. Louisiana fast becoming a "natural" in the cattle industry. Coastal Cattleman 9(10):17-18,illus. Dec.1943. 43.8 C63

65. BEALE, C. Florida cattle industry is "going places." Fla. Grower 48(1):5,7,illus. Jan.1940. 80 F6622

66. BELL, C. E. Beef cattle in the South; systems of production. Coastal Cattleman 13(7):7-8,illus. Sept.1947. 43.8 C63

67. COBB, W. T. Beef cattle in Louisiana, past and present. Coastal Cattleman 7(11):7-10,illus. Jan.1942. 43.8 C63

68. COBB, W. T. Louisiana Cattlemen's Association; putting the Louisiana cattle industry on the map. Gulf Coast Cattlemen 14 (12):5-7,illus. Feb.1949. 43.8 G95

69. COBB, W. T. The South in the national livestock picture. Coastal Cattleman 6(1):10-13,illus. Mar.1940. 43.8 C63

70. COMBS, T. B. Beef cattle breeds and their histories. Coastal Cattleman 9(5):5-8,illus. July 1943. 43.8 C63
All breeds discussed, including hybrids, are raised in the Gulf Coast Region.

71. COOPER, J. F. Jeeps symbol of modern ranching in DeSoto [County, Fla.]; Peace River valley country is making notable progress with pastures and cattle. Fla. Grower 55(5):5,25,illus. May 1947. 80 F6622

72. DACY, G. H. Four centuries of Florida ranching. St. Louis, Britt Print. Co., 1940. 310 p.,illus. Ref. 43 D11

73. FLORIDA STATE CATTLEMEN'S ASSOCIATION. Charter of FSCA is formally adopted at Orlando convention; complete text. Fla. Cattleman 11(4):33-35. Jan.1947. 43.8 F66

74. GAYLE, A. L. The beef cattle industry of Southwest Louisiana. Coastal Cattleman 7(8):27-28. Oct.1941. 43.8 C63

75. GREGORY, W. H. Beef cattle production in Alabama. Ala. Polytech. Inst. Agr. Ext. C. 257, 16 p.,illus. June 1943. 275.29 AL1C

76. KIRK, W. G., and HODGES, E. M. Ona station is Hardee [County] project; [Florida] Range Cattle Experiment Station seeks to serve stockmen. Fla. Cattleman 9(12):9,18-20,illus. Sept.1945. 43.8 F66

77. LEWIS, L. H. Beef cattle in Florida. Fla. Dept. Agr. B. (n.s.)28, rev. 286 p.,illus. Nov.1949. 2 F66B

78. MCCOMAS, E. W. Beef production on the farm. U. S. D. A. Farmers' B. 1592, rev., 14 p.,illus. Sept.1950. 1 Ag84F
Covers general basic principles which are applicable to the Gulf Coast.

79. MERRICK, F., and EFFERSON, J. N. Farmer experience with the beef cattle enterprise in Louisiana. La. Agr. Expt. Sta. B. 353, 31 p. Aug.1942. 100 L93

80. MORRISON, S. R. Our southern beef cattle industry. Plantation Stockman 2(11):10,25-26. July 1945. 49 P69

81. NEWELL, P. F., and GRISSOM, E. E. Beef cattle enterprises [in Mississippi]. Miss. State Col. Ext. B. 118, 132 p.,illus. Oct.1942. 275.29 M67

82. NEWELL, P. F. The commercial beef herd demonstration; more money from cow and calf programs [in Mississippi] (for adult and junior demonstrations). Miss. State Col. Ext. C. 137, 12 p.,illus. May 1946. 275.29 M68C

83. NEWELL, P. F. Learning the "know-how' of livestock production: the shift from cotton to cattle in Mississippi. Coastal Cattleman 16(6):9-10,12. Aug.1950. 43.8 C63

84. REEVES, F. East Texas has many natural advantages for livestock [cattle]. South. Stockman 4(10):60,94-95. Oct.1944. 49 So83

85. REEVES, F. Livestock progress in East Texas. South. Stockman 4(9):36-37,73. Sept.1944. 49 So83
Cattle.

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205. GRIST, E. A. Pink eye [keratitis]. Cattleman 31(1):47-48. June 1944. 49 C29

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illus. Ref. Apr.1942,Apr.,Oct.1944. 41.8 Am3A

I-II by H. W. Johnson and B. F. Cox; III, V by H. W. Johnson; IV by F. A. Kummer and H. W. Johnson.

Partial contents: II, A proposed method of testing the potencies of johnins; III, Multiple testing on sensitized cattle as a method of studying johnin potency; IV, Dermal thickness gage; V, Producing and standardizing a potent product.

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English summary.

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English summary.

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220. MOHLER, J. R. Blackleg: its nature, cause, and prevention. U. S. D. A. Farmers' B. 1355,rev.,12 p.,illus. Feb.1942. 1 Ag84F

221. MOHLER, J. R., and SHAHAN, M. S. Lumpy jaw, or actinomycosis. U. S. D. A. C. 438,rev.,9 p.,illus. Jan.1943. 1 Ag84C

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222. MOHLER, W. M. Blackleg. U. S. D. A. Ybk.1942:523-525. 1 Ag84Y

223. MUCCIOLO, P. Sôbre um caso de bursite com localização cervical em bovino. Rev. de Indús. Anim. 9(2/3):132-136. Ref. Apr./July 1940. 49 R324

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225. NEGRETE E ITUARTE, J. B. C. Algunas observaciones acerca de la pasteurellosis. Cuba. Min. de Agr. Rev. 27(28):74-85. Nov./Dec.1944. 8 Ag88Re
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226. NETCHAEV, P. Carbunclo sintomatico. Suelo Tico. 2:482-484. July 1949. 8 Su2
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English summary.

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236. SANDERS, D. A. Mastitis in heifers following injury by the horn fly, Haematobia serrata Desv. [Siphona irritans (L.)] Amer. Vet. Med. Assoc. J. 104:284-285,illus. May 1944. 41.8 Am3
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Malignant catarrhal fever in cattle.

241. STEIN, C. D. Hemorrhagic septicemia "shipping fever" of cattle. U. S. D. A. Farmers' B. 1018,rev.,8 p.,illus. Oct.1944. 1 Ag84F

242. SWARTHOUT, E. W. Case report on red water disease [hemoglobinuria]. Tex. Vet. B. 6(9):3. Sept.1944. Tex. A. & M. Col. Libr.

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245. VAITSMAN, J. Coriza gangrenosa (mal de broca, oca, brocao). Rev. Agron. [Porto Alegre] 12:168. July/Sept.1948. 9.2 R325

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A new and painful disease of cattle called chorona or pela rabo in Brazil.

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249. VIRVIESCAS, F. Corynebacterium como agente del catarro vaginal contagioso [vaginal catarrh] de las vacas de la sabana de Bogotá. Rev. de Med. Vet. [Bogotá] 18:150-158. Jan.-July 1949. 41.8 R3214

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English summary.

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251. DILLON, E. D. Anthrax - scourge of the Gulf Coast. Gulf Coast Cattleman 14(1):18-19. Mar.1949. 43.8 G95

252. GRIST, E. A. Anthrax; first disease of man and animals, against which bacterial vaccine was found to be effective, dates back to Biblical days. Cattleman 30(12):45-46. May 1944. 49 C29

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253. LEONPACHER, L. The control of anthrax. No. Amer. Vet. 29:419-421. July 1948. 41.8 N812

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255. MUNIZ, C. M. Anthrax (carbón bacteridiano) (carbunco bacteridiano) (febris carbuncutory). P. R. Agr. Col. Ext. F-4,6 p., folder. June 1941. 275.29 P96F

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259. APICE, M. D', and PENHA, A. M. Vacinação dos bezerros e adultos com a "Brucela 19" como campanha geral de combate à brucelose bovine. Cong. Bras. de Vet., An. 3:409-417. Ref. 1945, pub.1946. 41.9 C769A

English summary.

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261. BUFF, V. Brucelas - contribuição bibliográfica. São Paulo. U. Facul. de Med. Vet. Rev. 3(3):157-166. Dec.1946. 41.8 Sa6

English summary.

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The author considers that as yet there is not sufficient evidence either for or against the therapeutic value of minerals for brucellosis.

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267. GAYLE, A. L. Vaccination to control Bang's disease [brucellosis] recommended for Coastal country; method seen as best where large numbers of stock are concerned. Coastal Cattleman 7 (4):5-7,illus. June 1941. 43.8 C63

268. MUÑOZ QUESADA, A. El aborto en el ganado bovino. Suelo Tico 2:25-27. Feb./Mar.1949. 8 Su2

269. PLATA GUERRE, R. Control de la brucellosis bovina. Rev. de Med. Vet. [Colombia] 17:101-110. July-Dec.1948. 41.8 R3214

270. VELASQUEZ Q., J. El aborto contagioso. Agr. Mex. 60 (12):1-20. Dec.1944. 8 Ag8

Foot and mouth disease

271. ABONDANO HERRERA, A. Hipótesis anti aftosa. Rev. de

Med. Vet. [Bogotá] 18:169-172. Jan.-July 1949. 41.8 R3214

272. ASOCIACION ARGENTINA DEL FRIO. COMISION CIENTIFICA. PRO-INVESTIGACION DE LA RESISTENCIA DEL VIRUS AFTOSO EN LAS CARNES DE EXPORTACION. Informe tecnico. Buenos Aires,1944. 33 p. 41 As5

273. BROCK, J. E. Discussion of foot and mouth disease eradication in Mexico. U. S. Livestock Sanit. Assoc. Proc. 52:72-74. 1948, pub.1949. 49.9 Un3R

274. CABOT, SIR D. Foot-and-mouth disease: its epizootiological aspects. Vet. Rec. 57:375-377. Aug.11,1945. 41.8 V641
Discussion, p.377-379.
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275. CHAVARRÍA CH., M. Diagnostico de fiebre aftosa y determinación del tipo. Rev. de Med. Vet. y Parasitol. 8:17-36.,illus. Jan./Dec.1949. 41.8 R3293

276. FLORES, O. Program for the eradication of the foot-and-mouth disease [in Mexico]. U. S. Livestock Sanit. Assoc. Proc. 52: 59-68. 1948,pub.1949. 49.9 Un3R

277. GALLOWAY, I. A. Consideration of some important aspects of recent investigations on foot-and-mouth disease. Internatl. Cong. Trop. Med. & Malaria. Proc. 4:1374-1381. 1948. 150 In822
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278. GILLIE, G. W. The outbreak of foot-and-mouth disease in Mexico. Vet. Med. 44:196-203,illus. May 1949. 41.8 M69

279. GOMEZ, M. R. La verdad sobre los Cebús conjeturas sobre la aftosa. Mexico, D. F., 1948. 209 p. 41 G584
Did the imported Brazilian Zebus bring the foot-and-mouth disease into Mexico?

280. GUERREIRO, M. G., TEIXEIRA, M. F. M., and SARAIVA, D. Febre aftosa (observações experimentais). Rio Grande do Sul. Dir. da Prod. Anim. B. 5(7):3-6. Mar.1949. 49.9 R47
Observations of cases in Brazilian calves.

281. JOHNSON, H. H. Foot and mouth disease eradication in Mexico. U. S. Livestock Sanit. Assoc. Proc. 52:69-71. 1948,pub. 1949. 49.9 Un3R

282. MANCINI, A. Profilaxis de la fiebre aftosa. Serv. Coop. Interamer. de Prod. de Alimentos Inform. del SCIPA 12:50-51. Oct. 1947. 9.8 P4352
Foot-and-mouth disease in Peru.
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Foot-and-mouth disease.
Also in Cuba. Min. de Agr. Rev. (ser.5)30(1):21-29. Jan./June 1947. 8 Ag88Re

284. MOHLER, J. R., and TRAUM, J. La fiebre aftosa; con breves notas del A. Mancini. Serv. Coop. Interamer. de Prod. de Aliment. Ser. Inform. Tèc. 31:1-9. Oct.1947. 9.8 Se6
Translation of parts of item 285.
The notes correlate the text to conditions in Peru.
Reprints and translations of articles and extracts regarding foot-and-mouth disease from various sources, p.10-16,illus.

285. MOHLER, J. R., and TRAUM, J. Foot-and-mouth disease. U. S. D. A. Ybk. 1942:263-275,illus. 1 Ag84Y

286. NUNEZ MESA, D. La importación de carne y la fiebre aftosa. Rev. Ganad. [Habana] 7(12):5. Dec.1947. 49 R321
Importing of beef into Cuba.

287. ORLANDINI, O. La fiebre aftosa. Vida Agr. 21:871-874. Nov.1944. 9.8 V66

288. RUBIO LOZANO, F. Conferencia [la Fiebre Aftosa en Mexico] sustentada en el Aula Máxima de la Facultad de Medicina Veterinaria y de Zootecnia, en la ciudad de Bogotá, Colombia, el 26 de agosto de 1950. Reconstruída por C. E. Morales R. Rev. de Med. Vet. [Bogotá] 19:270-276. Aug.-Nov.1950. 41.8 R3214

289. SCHOENING, H. W., FLADNESS, S. O., and BURCH, D. S. Protection against foot-and-mouth disease has scientific basis. U. S. Agr. Res. Admin. Res. Achievement Sheet 29(A),2 p. May 10,1945. 1.98 R31
The Foot-and-Mouth Disease Commission of the U. S. Department of Agriculture conducted the research. They have shown that eradication in the United States consists in applying quarantine measures, slaughtering, and disinfection.

290. SIMMS, B. T. Keeping foot-and-mouth disease out of the United States. Amer. Brahman Cong. Proc. Amer. Brahman Centen. 1949:40-46,illus. 43.9 Am392

291. SYMPOSIUM on foot-and-mouth disease in Mexico. Amer. Vet. Med. Assoc. J. 111:355-362,illus. Nov.1947. 41.8 Am3
Contents: Brief report on the diagnosis of foot-and-mouth disease in Mexico, by F. Camargo; Report on inspection of infected areas in Mexico by a Congressional Committee, by G. W. Gillie; Some facts concerning the eradication program in Mexico, by M. R. Clarkson; Discussion.

292. TRAPP, E. Bovinos portadores de febre aftosa. Rev. dos Criadores 18(8):74-75. Aug.1947. 43.8 R32

293. TRAPP, E. [E]. A evolução dos métodos de imunização ativa contra a febre aftósa. Soc. Paul. de Med. Vet. B. 6(1):46-48. June 1944. 41.9 So13

294. TRAPP, E. E. A febre aftosa. Biológico 8(1):8-10. Jan. 1942. 442.8 B529
Foot-and-mouth disease.

295. TRAPP, E. E. O veado campeiro (Mazama Americana Erxleben, 1777) como possivel disseminador da febre aftosa. Cong. Bras. de Vet. An. 3:612-614. 1945,pub.1946. 41.9 C769A

296. U. S. BUR. OF ANIMAL INDUSTRY. Statement regarding cures for foot-and-mouth disease. Washington,1949. 3 p. 1.972 A2St24
Covers also slaughter with quarantine and immunization, as well as plans for construction of a research laboratory.

297. UNITED STATES LIVESTOCK SANITARY ASSOCIATION. COMMITTEE ON FOOT-AND-MOUTH DISEASE. [Report.] U. S. Livestock Sanit. Assoc. Proc. 52:75-78. 1948,pub.1949. 49.9 Un3R
F. L. Schneider, chairman.
Emphasizes particularly the Mexican problem.

298. VENEZUELA. DIRECCION DE GANADERIA. SERV. DE INFORMACION TECNICA. La fiebre aftosa [foot-and-mouth disease] 30 p. Carácas,1947. Ref. 41 V55F

299. VOGELSANG, E. G., and CHAVARRIA CH., M. La fiebre aftosa en México. Rev. de Med. Vet. y Parasitol. 6:3-32,illus. Jan./Dec.1947. 41.8 R3293

300. ZAROTSCHENZEFF, M. T. Will dielectric heating pave the way for South American meat [by killing the virus of foot-and-mouth disease]? Meat 22(1):21-23,42,44. Dec.1944. 286.85 M464
Also, with title, Dielectrics and South American meat, in Butchers'

Advocate 117(4):10-12. Jan.24,1945. 286.85 B97

Pests and Parasites

General

301. ALICATA, J. E. Parasites and parasitic diseases of domestic animals in the Hawaiian Islands. Pacific Sci. 1:69-84. Ref. Apr.1947. 475 P11

Parasites of cattle, p.72-74, with a summary showing name of parasite, location in host, and intermediate host as each has been recorded, p.78-79.

302. ALICATA, J. E. Prevention and treatment of important cattle parasites. Hawaii. U. Agr. Ext. B. 50,23 p.,illus. Ref. Mar. 1950. 275.29 H312E

Contents: Introduction; Liver flukes; Stomach worms; Hookworms; Lungworms; Cattle grubs; Ear ticks; Useful Government publications on cattle parasites and methods for their control.

303. ANDREWS, J. S., and MALDONADO, J. F. A preliminary note on the internal [gastrointestinal] parasites of Puerto Rican cattle with special reference to those species found in calves suffering from "tropical diarrhea." P. R. U. J. Agr. 24:121-132. Ref. Oct.1940. 8 P832J

The writers found the nodular worm, Oesophagostomum radiatum, present in large numbers in the calves suffering from this diarrhea.

304. BAEZ FINOL, D. Contribución al estudio de las enfermedades protozoarias naturales y experimentales de los bovinos en Venezuela. Rev. de Med. Vet. y Parasitol. 6(1/4):31-97. Jan./Dec. 1947. 41.8 R3293

305. BENBROOK, E. A. List of parasites of domesticated animals in North America. Rev. ed. Minneapolis,Burgess,1946. 53 p. 436 B433

Arranged by systems of organs and covers for each parasite or group, scientific and common name, classification, location in organs or tissues, hosts and size.

306. BENBROOK, E. A., and SLOSS, M. W. Veterinary clinical parasitology. Ames, Iowa State Col. Press,1948. 187 p.,illus. 436 B433V

References, p.155-175.

The authors' purpose is to assist in diagnosis by means of laboratory techniques and furnish illustrations designating respective hosts. Covers both parasites and pests. The index brings out material relating to cattle.

307. CUCKLER, A. C., and ALICATA, J. E. Parasite surveys. Hawaii. Agr. Expt. Sta. Rpt. 1941/42:46-48. Apr.1943. 100 H313

Nine parasites chiefly in mature range cattle.

308. DIKMANS, G. Check list of the internal and external animal parasites of domestic animals in North America. Amer. J. Vet. Res. 6:211-241. Ref. Oct.1945. 41.8 Am3A

The tables covering cattle, p.218-221, give common and scientific names, location in host, intermediate host, and a geographic distribution which covers the possessions of the United States as well.

309. DIKMANS, G. Internal parasites of cattle. U. S. D. A. C. 614,40 p.,illus. Jan.1942. 1 Ag84C

310. FOSTER, A. O. Parasites [and pests] of beef cattle; what they are and what to do about them. Amer. Hereford J. 35(17):36,40, 44,52,54,58,60. Jan.1,1945. 43.8 Am32

Selects for discussion a few that are of special economic significance.

311. GREGG, P. External parasites of cattle and their control [in Texas]. Tex. Agr. Col. Ext. B. 158,14 p.,illus. 1948. 275.29 T312

312. GUIMARAES, L. M., and LACERDA, P. M. G., JR. Micose em bovinos de São Paulo por "Tricophyton faviforme album" (Sabouraud,1909). São Paulo. U. Facul. de Med. Vet. Rev. 3(1-2):151-154, illus. Dec.1945. 41.8 Sa6

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315. MURPHREE, L. C. Control livestock insects. Miss. State Col. Ext. L. 90,6 p.,folder. Oct.1948. 275.29 M68Ex

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324. CREIGHTON, J. T., and DENNIS, N. M. The tail louse [Haematopinus quadripertusus] in Florida. J. Econ. Ent. 40:911-912, illus. Dec.1947. 421 J822

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327. GILYARD, R. T. Bat transmitted paralytic rabies. Cornell Vet. 35:195-209. July 1945. 41.8 C81

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328. HENDERSON, B. L. Ear-tick [Otobius megnini] and

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330. LINDQUIST, A. W. Ants as predators of Cochliomyia [Callitroga] americana C. & P. J. Econ. Ent. 35:850-852. Dec.1942. 421 J822

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333. MATTHYSSE, J. G. DDT to control hornflies [Siphona irritans] and Gulf Coast ticks [Amblyomma maculatum] on range cattle in [southern] Florida. J. Econ. Ent. 39:62-65. Feb.1946. 421 J822

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345. BRUCE, W. G. A cattle fly trap for the control of horn flies. U. S. Bur. Ent. & Plant Quar. E-498,6 p.,illus. Mar.1940. 1.9 En83

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350. BRUCE, W. G. Screwworm survey of the southeastern States in 1943-1944. J. Econ. Ent. 37:687-689; 38:327-329,maps. Oct.1944,June 1945. 421 J822

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363. LAAKE, E. W. Chlorinated hydrocarbon insecticides for the control of the horn fly [Siphona irritans] on beef cattle in Kansas and Missouri. J. Econ. Ent. 42:143-144. Feb.1942. 421 J822
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384. WELLS, R. W. DDT as a flyspray [for horn flies, Siphona irritans] on range cattle. J. Econ. Ent. 37:136-137. Feb.1944. 421 J822

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389. FURMAN, D. P., and DOUGLAS, J. R. Comparative evaluations of insecticides for cattle grub [Hypoderma, both species] control. J. Econ. Ent. 41:783-787. Oct.1948. 421 J822

Name of joint author appears as J. R. Douglass.

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390. GRAHAM, O. H. An attempt to protect cattle from grub [Hypoderma lineatum] infestation by use of [chlorinated hydrocarbon] insecticides. J. Econ. Ent. 42:837. Oct.1949. 421 J822

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391. GREGG, P. More meat, milk and leather by controlling cattle grubs [Hypoderma lineatum]. Tex. Agr. Col. Ext. Food Prod. Ser. 39,2 p. Nov.1942. 275.29 T312Fo

392. JOHNSTON, H. G. Are your cattle grubby? Don't let cattle grubs [Hypoderma lineatum] rob you of beef, milk, leather, and profits. Tex. Agr. Col. Ext. C. 218,3 p. Sept.1944. 275.29 T312C

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395. LAAKE, E. W. Dry application of cube or derris in combination with wettable sulfur for the control of cattle grubs [Hypoderma lineatum]. J. Econ. Ent. 35:112. Feb.1942. 421 J822

Method used is especially favorable for treating small herds and individual animals.

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397. STEWART, M. A. Rotenone and ox warble control. J. Econ. Ent. 37:756-760. Dec.1944. 421 J822

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398. TOLEDO, A. A. DE. O melhor preparado de combate ao berne. Colheit. e Mercad. 5:25-26. Jan./Feb.1949. 255.3 Sa652

The best preparation for control of Hypoderma bovis.

399. U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Preparation and use of dusts, sprays, washes, and dips containing rotenone for the destruction of cattle grubs [Hypoderma lineatum]. U. S. Bur. Ent. & Plant Quar. E-623,5 p. Aug.1944. 1.9 En83

400. U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. Rotenone reduced in dusts for cattle grub [Hypoderma] treatments. U. S. Bur. Ent. & Plant Quar. E-602,1 p. Sept.1943. 1.9 En83

401. WELLS, R. W. The use of derris and cube washes in the control of cattle grubs [Hypoderma]. U. S. Bur. Ent. & Plant Quar. E-496,5 p. Feb.1940. 1.9 En83

402. WELLS, R. W. The use of power sprayers in the control of cattle grubs [Hypoderma lineatum]. J. Econ. Ent. 35:112-113. Feb. 1942. 421 J822
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Piroplasmosis (tick fever) and anaplasmosis.

404. AGUILAR, J. I. La ranilla de los bovinos. Rancho Mex. 3 (19):21-24,77,illus. May 1947. 8 R15R
Control measures used in Mexico against tick fever.

405. ALVAREZ, A. A. Anaplasmosis [in Puerto Rico]. Rev. de Agr. de P. R. 38:67-69. Jan./Apr.1947. 8 R325

406. ALVAREZ J., M. Banos de garrapaticida. Caldas. Sec. de la Econ. Rev. Agropecuaria 8(29):43-49. May 1943. 9.4 C714

407. ANDRADE, L. Novo produto empregado com sucesso no combate e extinção dos garrapatos. Bahia Rur. 16(11):7. Nov.1948. 9.2 B142
Rhodiatox (parathion) a new product used with success in tick control on livestock.

408. ARNOLD, R. M. Tick control agents; experimental work at Hope on the control of Boophilus annul[a]tus - the Texas fever tick. Farmer [Kingston] 53:85-91. Mar.1949. 8 J223
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409. ARNOLD, R. M. Tick control measures; assessment of the value of chemical tickicides for Boophilus (Margoropus) annulatus var. microplus in Jamaica. Vet. Rec. 61:198-201,212-217. Ref. Apr.16,23,1949. 41.8 V641

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412. BARONI, O., and EGH, R. Combate ao carrapato do gado bovino com DDT. Biológico 14:109-112,illus. May 1948. 442.8 B529
Use of DDT in the control of cattle ticks.

413. BARONI, O. O tratamento do carrapato do gado bovino com DDT. Biológico 13:157-161. Sept.1947. 442.8 B529
The use of DDT in cattle tick control.

414. BASTERRECHEA, L. DE. Piroplasmosis, anaplasmosis y babesiellosis de los bovinos. Agr. Venezol. 13(134):51-52,illus. Apr./May 1949. 9.95 Ag8
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418. BOLOÑA R., J. La piroplasmosis y la anaplasmosis en la aclimatación del ganado de pura sangre en los países tropicales. Ecuador Dept. de Agr. B. 12,13 p. 1942. 9.5 Ag8B

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420. CHAVARRÍA A., C. La anaplasmosis en el ganado bovino de Costa Rica. Costa Rica. Dept. Nac. de Agr. B. Tec.,43,4 p.,illus. Sept.1943. 102 C822

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421. CHAVARRIA CH., M. La campaña contra la garrapata [Boophilus annulatus]. Tierra [Mexico,D.F.], 1:25-27,52-53,illus. Oct.1945. 8 T445

422. COBBETT, N. G. DDT and DDT combined with benzene hexachloride for the control and eradication of Boöphilus annulatus. Amer. J. Vet. Res. 9:270-276. July 1948. 41.8 Am3A

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462. PARISH, H. E. Recent studies on life history and habits of the ear tick [Otobius megnini]. J. Econ. Ent. 42:416-419. June 1949. 421 J822

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474. SANDERS, D. A. Anaplasmosis of cattle. Amer. Brahman Cong. Proc. Amer. Brahman Centen. 1949:47-51,illus. 43.9 Am392

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Tested chiefly against Amblyomma americanum, the lone star tick. Successful results from sprays containing DDT dissolved in soluble pine oil.

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479. SQUIBB, R. L. O contrôle dos carrapatos do gado vacum. Soc. Rur. Bras. Rev. 28(330):30-31,illus. Mar.1948. 9.2 B733

Boophilus annulatus microplus.

480. SQUIBB, R. L. A new method for the control of cattle ticks [Boophilus annulatus microplus] in tropical regions. J. Anim. Sci. 5: 71-79,illus. Feb.1946. Ref. 49 J82

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Describes further experiments carried out at the Inter-American Institute of Agricultural Sciences, Turrialba, Costa Rica, using a revised formula of the spray made from the combined solution of DDT and rotenone. Emphasizes the results of field tests under various conditions.

For previous experiments see Item 336.

481. STAUFFER, V. D. Sodium cacodylate and arsenic trioxide in anaplasmosis of cattle. No. Amer. Vet. 28:219-221. Apr.1947. 41.8 N812

Condensed in his article entitled Immunization against anaplasmosis [and tick fever] of SCIPA-imported cattle. Serv. Coop. Interamer. de Prod. Alimentos. Rpt. E-1/2:35-37,illus. June 1947. 173.3 In83Li

If bulls imported into Peru, were immunized there, during the incubative stages of anaplasmosis, the effect of the disease was attenuated and the animals overcame the infections. Acaprin was used for one group as immunization for tick fever.

482. STAUFFER, V. D. Tocazón. Serv. Coop. Interamer. de Prod. de Alimentos. Rpt. E-3,App.C,p.47-53,illus. 1947. 173.3 In83Ad

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484. STILES, G. W. Anaplasmosis in cattle. U. S. D. A. C. 154, rev.,11 p.,illus. Aug.1946. 1 Ag84C

485. TATE, H. D. The biology of the tropical cattle tick [Boophilus annulatus microplus] and other species of tick in Puerto Rico, with notes on the effects on ticks of arsenical dips. P. R. U. J. Agr. 25:1-24. Jan.1941. 8 P832J

486. TRAVIS, B. V. Examinations of wild animals for the cattle tick, Boophilus annulatus microplus(Can.) in Florida. J. Parasitol. 27:465-467. Oct.1941. 448.8 J824

Tabulated results show wild hosts and the ticks found on them. Cattle ticks on deer only.

487. VELASQUEZ Q., J. El problema de la garrapata en Colombia. Asoc. Colomb. de Ganad. B. Ganad.,13:62-72,illus. June 1945. 43.9 As53

Boophilus annulatus.

488. VENEZUELA. DIRECCION DE GANADERÍA. SERV. DE EXTINCION DE LA GARRAPATA. Acabemos con la garrapata. Caracas,Garrido,1945. 21 p. 434 V55

489. VENEZUELA. DIRECCION DE GANADERÍA. SERV. DE HIGIENE Y SANIDAD ANIMAL. Lucha contra la gerrapata; metodo Bilbao [C. A. Bilboa H.] para determinar óptimas concentraciones arsenicales en los bañaderos garrapaticidas. Caracas,Garrido,1943. 22 p. 434 V552

Parasites

490. BOUGHTON, D. C. Bovine coccidiosis: from carrier to clinical case. No. Amer. Vet. 26:147-153,illus. Mar.1945. 41.8 N812

Includes brief descriptions of ten species of the genus Eimeria reported from cattle.

491. BOUGHTON, D. C. Cattle coccidiosis. U. S. D. A. Ybk. 1942:565-571. Ref. 1 Ag84Y

492. BOUGHTON, D. C. The causes of outbreaks of bovine coccidiosis. Amer. Vet. Med. Assoc. J. 105:74-76. Ref. Aug.1944. 41.8 Am3

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493. BOUGHTON, D. C., and DAVIS, L. R. An experiment with Sulfaguanidine in the treatment of naturally acquired bovine coccidio-

sis. Amer. J. Vet. Res. 4:150-154. Apr.1943. 41.8 Am3A
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494. BOUGHTON, D. C. An overlooked macroscopic intestinal lesion of value in diagnosing bovine coccidiosis. No. Amer. Vet. 23: 173-174,illus. Mar.1942. 41.8 N812

495. BOUGHTON, D. C. Sulfaguanidine therapy in experimental bovine coccidiosis. Amer. J. Vet. Res. 4:66-72. Jan.1943. 41.8 Am3A
The experiments carried on in Alabama show the drug as promising in treating infections.

496. CHRISTENSEN, J. F. The oöcysts of coccidia from domestic cattle in Alabama (U. S. A.), with descriptions of two new species. J. Parasitol. 27:203-220,illus. Ref. June 1941. 448.8 J824
Differentiates nine species of the genus Eimeria.

497. CORREA, O. A localização hepática da forma ninfal da "Linguatula serrata" (Frölich 1789), em bovinos do Rio Grande do Sul. Criação e Vet. 2:79-82,illus. Mar.1947. 49 C86
Hepatic localization of the nymph form of "Linguatula serrata" in cattle of Rio Grande do Sul.

498. CORTIZO, J. M. La presencia en Cuba del Trichuris discolor (von Linstow, 1906). Cuba. Min. de Agr. Rev. (ser. 4) 29(2):65. Apr./Sept.1946. 8 Ag88Re
Specimens of parasites found in cattle.

499. DIKMANS, G. Bovine genital trichomoniasis. U. S. D. A. Ybk. 1942:605-611,illus. Ref. 1 Ag84Y

500. EADS, R. B. A second record of Lipoptena mazamae from cattle. J. Econ. Ent. 42:158. Feb.1949. 421 J822
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501. FELSENFELD, O., GONZALEZ, L. M., and YOUNG, V. M. Salmonellae in domestic animals in Puerto Rico. Internatl. Cong. Trop. Med. & Malaria. Proc. 4:1412-1415. 1948. 150 In822
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Issued as U. S. Dept. State. Internatl. Organ. & Conf. Ser. I, Gen. 5.
Includes cattle which are more susceptible in warmer countries.

502. FRICKERS, J. Experimenteel onderzoek van de runderparasieten Babesia bigemina en Anaplasma marginale in Suriname. Tijdschr. v. Diergeneesk. 73:517-539. Ref. July 1,1948. 41.8 T431
English summary.

503. HAMMOND, D. M., and others. The endogenous phase of the life cycle of Eimeria bovis. J. Parasitol. 32:409-427,illus. Ref. Aug.1946. 448.8 J824
G. W. Bowman, L. R. Davis, and B. T. Simms, joint authors.

504. HAMMOND, D. M., DAVIS, L. R., and BOWMAN, G. W. Experimental infections with Eimeria bovis in calves. Amer. J. Vet. Res. 5:303-311,illus. Ref. Oct.1944. 41.8 Am3A
The experiments, carried on in Alabama, discuss and analyze the symptoms, course of infection, and the relationship between the number of oöcysts ingested and the severity of the disease.

505. HAMMOND, D. M., and DAVIS, L. R. An improved method for sporulating oöcysts in bovine fecal material. Amer. J. Vet. Res. 5:70-71. Jan.1944. 41.8 Am3A
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506. HAMMOND, D. M., and BARTLETT, D. E. The relative value of sedimentation and of saline-egg culture in the examination of bovine vaginal and preputial samples for Trichomonas foetus. Amer. Vet. Med. Assoc. J. 104:10-12. Jan.1944. 41.8 Am3

507. KUBES, V. Ensayos terapeuticos con 4:4'diamidino-stilbeno y 4:4' diamidino-difenoxipentano en las tripanosomiasis de ganados equino y bovino (T. venezuelense y T. vivax) en Venezuela. Caracas, Impresores Unidos, 1945. 29 p. Ref. (Conferencia Interamericana de Agricultura, 3, Caracas, 1945. Comité Ejecutivo. Cuadernos Verdes, 51) 41 K955E

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508. KUBES, V. El "Trypanosoma vivax" americano, agente de la tripanosomiasis bovina en Venezuela su comparación con el del Africa. Caracas,Venezuela. Ministerio de Agricultura y Cría. Dirección de Ganadería. Instituto de Investigaciones Veterinarias,1944. 124 p. Ref. 41 V553T

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509. LOTZE, J. C., and YIENGST, M. J. "Eperythrozoonosis" in cattle in the United States. No. Amer. Vet. 22:345-346,illus. June 1941. 41.8 N812

Eperythrozoon wenyoni, apparently identical with the cattle blood parasite described as such in South Africa. Discusses its association with Anaplasma marginale.

510. MOREIRA, J. Coccidiose bovina. Biológico 11:316-319, illus. Dec.1945. 442.9 B529

511. MORGAN, B. B. Bovine trichomoniasis. Rev. ed. Minneapolis,Burgess,1946. 165 p.,illus. Ref. 41 M823

Presents a survey of relevant literature, supplemented by the author's researches and experiences.

512. MORGAN, B. B., and BEACH, B. A. The geographical distribution of bovine trichomoniasis. Vet. Med. 37:459-462,maps. Ref. Nov.1942. 41.8 M69

513. PITREZ, M. L. S., and CORRÊA, O. Salmonelose bovina no Rio Grande do Sul. Aspétes clínicos e bacteriológicos. Rev. Agron. [Porto Alegre] 7:193-194. Apr.1943. 9.2 R325

514. PLATA GUERRERO, R. Anotaciones al estudio serológico de las Salmonellas patogenas para el ganado bovino en Colombia. Rev. de Med. Vet. [Bogotá] 14:80-86. July/Dec.1945. 41.8 R3214

515. RICHARDSON, U. F. Veterinary protozoology. Edinburgh, Oliver and Boyd, 1948. 240 p.,illus. Ref. 439 R39

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516. SCALES, J. W. Coccidiosis in cattle. Miss. Farm Res. [Miss. Sta.] 9(6):8. June 1946. 100 M69Mi

Published also as Miss. Agr. Expt. Sta. Inform. Sheet 369, 2 p. June 1946. 100 M69In

517. STAUFFER, V. D. Bovine genital trichomoniasis. Serv. Coop. Interamer. de Prod. de Alimentos. Rpt. E-3,App.B,p.39-45, illus. 1947. 173.3 In83Ad

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518. TORRELLAS ALVARADO, J. Observaciones sobre tripanosomiasis bovina, varios casos de una forma nerviosa presentada en el estado Zulia [Venezuela]. Rev. de Med. Vet. y Parasitol. 3(1-4): 181-185. 41.8 R3293

519. LA TRIPANOSOMIASIS del ganado vacuno. B. de Ganad. 6: 400-402, Jan./Dec.1944. 43.8 B63

520. TURK, R. D. Bovine trichomoniasis. Tex. Vet. B. 5(5):1-3. Ref. June 1943. Tex. A. & M. Col. Libr.

Liver flukes

521. ALICATA, J. E. The control of liver fluke of cattle in Hawaii. Hawaii. Agr. Expt. Sta. C. 25,19 p. Ref. Sept.1946. 100 H313

Describes methods for control of the intermediate host, the snail, Fossaria ollula, and the use of kamala extract and various mixtures of hexachloroethane, including Distol, for treatment of the giant liver fluke (Fasciola gigantica).

522. ALICATA, J. E. A new drug for the treatment of liver fluke of cattle. Hawaii. Agr. Expt. Sta. Prog. Notes 24,4 p. Sept. 1941. 100 H313

Beneficial results found in treating the giant liver fluke with hexachloroethane combined with kamala extract, comparable to those obtained with Distol.

523. ALICATA, J. E., and SWANSON, L. E. Observations on the longevity of the liver fluke, Fasciola gigantica, in cattle. Amer. J. Vet. Res. 2:417-418. Oct.1941. 41.8 Am3A

524. ALICATA, J. E. Studies on control of the [giant] liver fluke of cattle in the Hawaiian Islands. Amer. J. Vet. Res. 2:152-164, illus. Apr.1941. 41.8 Am3A

Suggestions cover: Control of the intermediate host, the snail, Fossaria ollula; protecting the animal from infection; and anthelmintic treatment with Distol, kamala extract, and hexachloroethane, separately and in combination.

525. BATTE, E. G., SWANSON, L. E., and MURPHY, J. B. Control of fresh water snails (intermediate hosts of liver flukes) in Florida. Amer. Vet. Med. Assoc. J. 118:139-141,illus. Ref. Mar. 1951. 41.8 Am3

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526. LOCKETT, S. Fluke disease [in Jamaica] of cattle and sheep (distomatosis or fascioliasis). Jamaica Agr. Soc. J. 45:410-411,413-414,417-418. Nov.1941. 8 J223

527. MUNIZ, C. M. El control de la 'cucaracha' del higado [common liver fluke] del ganado vacuno. P. R. Agr. Col. Ext. F-3, 6 p.,folder. June 1941. 275.29 P96F

528. OLSEN, O. W. Controlling bovine fascioliasis by medication [hexachloroethane]. Auburn Vet. 3:117-119,128,illus. Summer 1947. 41.8 Au1

529. OLSEN, O. W. Hexachloroethane-bentonite suspension for controlling the common liver fluke, Fasciola hepatica, in cattle in the Gulf Coast region of Texas. Amer. J. Vet. Res. 8:353-366. Ref. Oct.1947. 41.8 Am3A

530. OLSEN, O. W. Liver flukes in cattle: diagnosis for treatment, and prevention. U. S. Livestock Sanit. Assoc. Proc. 52:79-93, illus. Ref. 1948,pub.1949. 49.9 Un3R

Of general application, this article covers, also, damages caused by the fluke and its life history.

531. OLSEN, O. W. Longevity of metacercariae of Fasciola hepatica on pastures in the upper coastal region of Texas and its relationship to liver fluke control. J. Parasitol. 33:36-42. Ref. Feb. 1947. 448.8 J824

532. OLSEN, O. W. Preliminary observations on hexachloroethane for controlling the common liver fluke, Fasciola hepatica, in cattle. Amer. Vet. Med. Assoc. J. 102:433-436. June 1943. 41.8 Am3

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533. OLSEN, O. W. Wild rabbits as reservoir hosts of the common liver fluke, Fasciola hepatica, in southern Texas. J. Parasitol. 34:119-123. Ref. Apr.1948. 448.8 J824

534. SCHWARTZ, B., and BURCH, D. S. Fluke [liver fluke] disease of cattle yields to drug treatment. U. S. Agr. Res. Admin. Res. Achievement Sheet 18(A),2 p. Feb.28,1945. 1.98 R31

Discusses the plan worked out by O. W. Olsen of the Zoological Division, U. S. Bureau of Animal Industry, for the treatment of the common liver fluke with hexachloroethane.

535. STAUFFER, V. D. La distomatosis hepatica [common liver fluke] en el ganado vacuno y lanar y su control con hexacloretano. Serv. Coop. Interamer. de Prod. de Alimentos. Ser. Inform. Téc. 17, 7 p.,illus. Nov.1946. 9.8 Se6

English translation in its Report E-3,Appendix D. 173.3 In83Ad

536. U. S. BUR. OF ANIMAL INDUSTRY. ZOOLOGY DIV. Liver flukes [common liver fluke] in cattle and how to control them by medication, by O. W. Olsen. Washington,1944. 5 p.,illus. 1.972 Z2L75

A general article, describing the use of hexachloroethane.

Worms

537. ANDREWS, J. S., and MALDONADO, J. F. Intestinal pathology in experimental bovine esophagostomiasis. Amer. J. Vet. Res. 3:17-27,illus. Ref. Jan.1942. 41.8 Am3A

538. ANDREWS, J. S., and MALDONADO, J. F. The life history of Oesophagostomum radiatum, the common nodular worm of cattle. P. R. (Rio Piedras). Agr. Expt. Sta. Res. B. 2,13 p. Ref. May 1941. 100 P83R

Summary in Spanish.

539. ANDREWS, J. S., MUNIZ, C. M., and ORIHUELA, F. Preliminary note on the administration of non-conditioned phenothiazine, in small daily doses, for the control of gastrointestinal parasites of cattle in Puerto Rico. P. R. U. J. Agr. 27:125-130. July 1943. 8 P832J

540. ANDREWS, J. S., and MALDONADO, J. F. Some clinical aspects of experimental esophagostomiasis in cattle. Amer. J. Vet. Res. 4:211-225. Ref. July 1943. 41.8 Am3A

The writers conclude that the nodular worm Oesophagostum radiatum, may be responsible for some cases of tropical diarrhea, since the symptoms of this disease are indistinguishable from those of esophagostomiasis, a condition associated with the presence of the nodular worm.

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542. BARNES, G. W., SMITH, A. L., and TURK, R. D. Control of stomach worms in cattle. Coastal Cattleman 11(7):14-15,22. Sept. 1945. 43.8 C63

543. CABALLERO y C., E. Variations in the number and arrangement of the caudal papillae of the male of Onchocerca armillata Railliet and Henry, 1909, and the validity of the species. Helminthol. Soc. Wash. Proc. 12:65-69,illus. Ref. July 1945. 436.9 H36

The author concludes that the species presents specific characters sufficient to differentiate it from other species of the genus.

Specimens collected from cattle in Annam.

544. CARDONA, C. J. Las lombrices en el becerro (prevención y tratamiento). Revisada por C. Gastambide Arrillaga. P. R. Agr. Col. Ext. Spec. C. 14,rev.,4 p. July 1946. 275.29 P96Ce

545. CAUTHEN, G. E. Tests of the safety of phenothiazine for

cattle. Amer. Vet. Med. Assoc. J. 107:71-72. Aug.1945. 41.8 Am3
Experiments carried out in Alabama. Conclusions indicate tolerance to recommended dosages.

546. COWSERT, W. C., and BERLINER, V. R. Phenothiazine: new treatment for cattle hookworms. Miss. Farm Res. [Miss. Sta.] 6(2):8. Feb.1943. 100 M69Mi

547. EMMEL, M. W. The use of phenothiazine for livestock. Fla. Agr. Expt. Sta. Press B. 599,4 p. Aug.1944. 100 F66S
Treats of cattle in a separate paragraph, as well as giving specific information regarding them in the general section.

548. ESTRADO, E. La lombriz del pulmón en el ganado (bronquitis verminosa, neumonía verminosa, bronconeumonía verminosa). Guatemala. Dir. de Enseñanza y Divulg. Agr. Rev. Agr. (ser. 2) 2: 146-150. Semest. 1, 1946. 8 G934

549. FOSTER, A. O., and BURCH, D. S. Phenothiazine, versatile drug for controlling livestock parasites. U. S. Agr. Res. Admin. Res. Achievement Sheet [4],2 p. July 5,1944. 1.98 R31
P. D. Harwood, A. Jerstad, and L. E. Swanson conducted the work, the agency responsible being the Zoological Division of the U. S. Bureau of Animal Industry.

550. GARCIA FERRO, M. T. Enfermedades de los ganados: bronquitis verminosa - neumonia verminosa - lombrices de los pulmones. Rev. Nac. de Agr. 31:27-29. Jan.1935. 9.4 R32

551. GRIST, E. A., and TURK, R. D. Control of the common stomach worms in cattle. Tex. Agr. Col. Ext. C. 222,rev.,8 p. May 1946. 275.29 T312C

552. HIERONYMUS, A. M. The life cycle and control of Haemonchus contortus (twisted stomach worm) of ruminants. Hawaii. U. Agr. Ext. C. 242,3 p. Apr.1948. 275.29 H312Ac

553. HOUDELOT, C. Bronquitis vermiforme en los terneros. Rev. de Agr. y Com. [Panama] 3(27):45-47. Nov.1943. 8 R3291
Also in Rev. Ganad. [San Salvador] 5(52/55):7-9. Mar./June 1944. 8 R3292 Title is: Bronquitis verminosa de los terneros.

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Contains indexes to hosts and to the helminths with their hosts, against which the drug has been tried; indicates also those articles abstracted in Helminthological Abstracts.

555. IMPERIAL BUR. OF AGRICULTURAL PARASITOLOGY (HELMINTHOLOGY). Phenothiazine in veterinary medicine; a review of the literature of 1942-46, by J. T. Edwards. Imp. Agr. Bur. Joint P. 12,35 p. Nov.1947. 10 Im73
Cattle, p.13-16, with references to literature. Includes a chart of the helminths concerned, showing degree of success in the treatment of each.

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Soc. Wash. Proc. 9:28. Jan.1942. 436.9 H36

560. MAYHEW, R. L., and others. Studies on bovine gastrointestinal parasites. I-XIII.

I. The mode of infection of the hookworm and nodularworm. Cornell Vet. 29:367-376,illus. Oct.1939. 41.8 C81; II. Immunity to hookworm and nodular worm infection in calves. J. Parasitol. 26:345-357,illus. Ref. Oct.1940. 448.8 J824; III. The blood picture in hookworm and nodular worm infection with some observations on the normal, by E. T. Delaune and R. L. Mayhew. Amer. Micros. Soc. Trans. 60:293-308,illus. Ref. July 1941. 440.9 Am33; IV. Influence of hay consumption on egg counts [of roundworms]. Cornell Vet. 30:495-498, illus. Oct.1940. 41.8 C81; V. Immunity [of calves] to the [twisted] stomach worm, with a note on the prepatent period. Amer. J. Hyg. 33(3, sect. D):103-111,illus. Ref. May 1941. 449.8 Am3; VI. The blood picture in stomach worm (Haemonchus contortus) infections, by E. T. Delaune and R. L. Mayhew. Amer. Micros. Soc. Trans. 62:179-193,illus. Apr.1943. 440.9 Am33; VII. Attempts to develop an active immunity to Haemonchus contortus by injection of saline extract of adult worms. Helminthol. Soc. Wash. Proc. 11:43-45,illus. July 1944. 436.9 H36; VIII. Effects of a low plane of nutrition on immunity to the stomach worm (Haemonchus contortus). Amer. J. Vet. Res. 6:21-27. Ref. Jan.1945. 41.8 Am3; IX. The effects of nematode infections during the larval period. Cornell Vet. 34:299-307,illus. Ref. Oct. 1944. 41.8 C81; X. The effects of nodular worm (Oesophagostomum radiatum) on calves during the prepatent period. XI. The life cycle of the hookworm (Bunostomum phlebotomum) in the calf. Amer. J. Vet. Res. 9:30-39. Ref. Jan.1948. 41.8 Am3A; XII. Additional infection experiments with the hookworm (Bunostomum phlebotomum) in the calf. J. Parasitol. 35:315-321,illus. June 1949. 448.8 J824; XIII. Species diagnosis of nematode infections by egg characteristics, by E. S. Krug and R. L. Mayhew. Amer. Micros. Soc. Trans. 68:234-239, illus. July 1949. 440.9 Am33; XIV. Haemonchus contortus immunity experiments with injections of dried worm powder and immune blood serum. Helminthol. Soc. Wash. Proc. 16:19-23,illus. Ref. Jan.1949. 436.9 H36

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565. PORTER, D. A., and CAUTHEN, G. E. Experimental infection of calves with the small stomach worm, Ostertagia ostertagi. (Abs.) J. Parasitol. 32(6, sect. 2 sup.):14-15. Dec.1946. 448.8 J824

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Tests carried on in Alabama.

569. PORTER, D. A. Incidence of gastrointestinal nematodes of cattle in the Southeastern United States. Amer. J. Vet. Res. 3:304-307. July 1942. 41.8 Am3A
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571. PORTER, D. A. Tapeworm and roundworm parasites of cattle. U. S. D. A. Ybk. 1942:593-604,illus. Ref. 1 Ag84Y

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576. STAUFFER, V. D. Parasite control with phenothiazine. Serv. Coop. Interamer. de Prod. de Alimentos. Rpt. E-3,App.E,p.63-67,illus. 1947. 173.3 In83Ad
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Names species, giving percentage of efficacy of the treatment for each.

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582. TURK, R. D., JONES, J. H., and ROBERTS, J. E. Treating feedlot steers [with phenothiazine and Cunic] for intestinal parasites. Tex. Agr. Expt. Sta. Prog. Rpt. 1131,2 p. Aug.10,1948. 100 T31P

583. U. S. BUR. OF ANIMAL INDUSTRY. ZOOLOGICAL DIV. Phenothiazine for the control of livestock parasites, by A. O. Foster and F. D. Enzie. Washington,1949. 9 p. 1.972 Z2P523
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586. CATTLE dipping vat for southern stock farms. South. Stockman 5(4):15. Apr.1945. 49 So83
Plans and specifications.

587. COUTINHO, R. Indispensáveis os banhos carrapaticidas. Granja [Porto Alegre] 6(51):18-19. Feb.1950. 9.2 G76
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588. CURD, F. H. S., and DAVEY, D. G. Antrycide: a new trypanocidal drug. Nature [London] 163:89-90,illus. Jan.15,1949. 472 N21
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589. DALE, S. S. Visits to thrifty dip tanks. Farmer [Kingston] 53:27-31,33-34,36-39. Jan./Feb.1949. 8 J223
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590. KING, C. A., and GREGG, P. External parasites of cattle and their control. Tex. Agr. Col. Ext. MS 760,10 p.,illus. 1946? 275.29 T313M

591. LAAKE, E. W. Livestock [i.e. cattle external] parasite control investigations and demonstrations in Brazil. J. Econ. Ent. 42:276-280. Apr.1949. 421 J822

592. RODRIGUEZ R., F. El agua de mar libra al ganado de parásitos externos e internos. Agr. Costarricense 5:260,262. July/Aug.1947. 8 Ag895

593. STRONG, R. G., and SMITH, C. E. Control livestock pests. La. Agr. Col. Ext. P. 1052,9 p.,illus. Apr.1950. 275.29 L93Ep
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594. SWANSON, L. E., and TAYLOR, A. L. Control of cattle-parasitic and free-living nematodes by soil fumigation with methyl bromide. Helminthol. Soc. Wash. Proc. 10:1-3. Jan.1943. 436.9 H36

595. SWANSON, L. E., and BATTE, E. G. Control of external parasites means regular handling, proper use of new insecticides, parasitologists report. Different dilutions of DDT, BHC, lindane, other chemicals are needed to control flies, mosquitoes, "wolves" [Hypoderma lineatum], lice and other external parasites on cattle, swine and horses. Fla. Cattleman 14(12):14,62-63,illus. Sept.1950. 43.8 F66

Special directions given treatment of beef cattle.

596. TAYLOR, A. M. Construction of a cattle dip. Past. Rev. 54:748-749. Dec.16,1944. 23 Au75

597. U. S. EXTENSION SERV. Report of Regional Animal Parasite Conference, Atlanta,Ga.,Oct.27-28,1947. 14 p. Washington? 1947. 1.913 C3R264

Internal and external parasites.

Insecticides

598. BRUCE, W. G., and BLAKESLEE, E. B. DDT to control insect pests affecting livestock. J. Econ. Ent. 39:367-374,illus. June 1946. 421 J822

Tests, chiefly with cattle, in the Southeastern States, including large-scale tests in central Florida, with special attention to the horn fly, Siphona irritans, in that State. The U. S. Bureau of Entomology and Plant Quarantine, and Du Pont de Nemours & Co., cooperating with local authorities.

599. BURNS, M. J. The effect of DDT on dairy cattle, beef cattle, and rats. Ala. Polytech. Inst. Grad. Sch. Abs. Theses 1945/47: 11-12. 1948. 241.8 AL1A

Feeding experiments with DDT-treated hay.

600. BUSHLAND, R. C., WELLS, R. W., and RADELEFF, R. D. Effect on livestock of sprays and dips containing new chlorinated insecticides. J. Econ. Ent. 41:642-645. Aug.1948. 421 J822

The tests are conducted in Texas and include Herefords as test animals. Use of Chlordane resulted in death to most of the cattle tested. Cattle sprayed with Xylene emulsions showed intense irritation.

601. EDEN, W. G., and ARANT, F. S. DDT residues on alfalfa. J. Econ. Ent. 41:383-387. Ref. June 1948. 421 J822

Experiments carried on in Alabama. Residues were checked from several angles. In feeding tests, no visible effect on health of cattle was found, though the results over a period of years has not been determined.

602. FURMAN, D. P. Toxicity of benzene hexachloride to mammals. J. Econ. Ent. 40:518-521. Aug.1947. 421 J822

A dry cow, one of the two mammals tested, when the drug was administered both per os and to the skin, showed no toxic reaction.

603. GAZTAMBIDE ARRILLAGA, C. El uso del DDT en el ganado y los establos. P. R. Agr. Col. Ext. Spec. C. 20,rev.,2 p. Mar. 1949. 275.29 P96Ce

604. GUNTHER, F. A. Effects of oxygen and sunlight on decomposition of rotenone in spray mixtures. J. Econ. Ent. 36:273-281, illus. Ref. Apr.1943. 421 J822

Adverse effects of oxidation, light and heat under field conditions.

605. LAAKE, E. W., and BRUCE, W. G. Controlling pests of stock. U. S. D. A. Ybk. 1943/47:670-673. 1947. 1 Ag84Y

Describes the use of DDT and benzene hexachloride chiefly against cattle pests which are problems in tropic and subtropic regions.

606. LINDQUIST, A. W., JONES, H. A., and MADDEN, A. H. DDT residual-type sprays as affected by light. J. Econ. Ent. 39:55-59. Feb.1946. 421 J822

208532 O - 52 - 4

Tests undertaken at Orlando, Fla.

607. MCGREGOR, W. S. Field tests of [chlorinated hydrocarbon] insecticides and spraying methods to control horn flies [Siphona irritans] in dairy herds. J. Econ. Ent. 42:641-643. Aug.1949. 421 J822

Tests would follow a similar course with beef cattle.

608. ORR, L. W., and MOTT, L. O. The effects of DDT administered orally to cows, horses, and sheep. J. Econ. Ent. 38:428-431. Aug.1945. 421 J822

Results of the test give reason to expect no bad effects on animals from the proper use of DDT.

609. PEREIRA, C. Carrapaticidas e inseticidas na pecuária. Biológico 14:139-143. June 1948. 442.8 B529

Chemical preparations and insecticides for cattle.

610. PETERSON, C. W. First large-scale test of DDT is completed in Orange County, Florida; 14,000 head of range and dairy cattle are sprayed or dipped in experiment made by U. S. D. A., and DuPont [de Nemours & Co.] Fla. Cattleman 10(1):16-18,illus. Oct. 1945. 43.8 F66

Chief interest centered on the horn fly, Siphona irritans.

611. RADELEFF, R. D. DDT spray outmodes dipping vat. Vet. Med. 42:372-373,illus. Oct.1947. 41.8 M69

612. ROARK, R. C. Chemists help make rotenone insecticides more widely useful. U. S. Agr. Res. Admin. Res. Achievement Sheet 33(E),2 p. June 5,1945. 1.98 R31

The isolation of rotenone and its properties and uses were carried on in the Division of Insecticide Investigations, U. S. Bureau of Entomology and Plant Quarantine.

613. SMITH, R. F., FULLMER, O. H., and MESSENGER, P. S. DDT residues on alfalfa hay and seed chaff. J. Econ. Ent. 41:755-758. Oct.1948. 421 J822

Though none of the residues found approach the acute toxic dosages for mammals, a hazard arises from storage of DDT in fat tissue and its secretion in milk.

614. STAUFFER, V. D. Usos del DDT para combatir pestes caseras y de los animales. Serv. Coop. Interamer. de Prod. de Aliment. Ser. Inform. Téc. 11,16 p. Sept.1946. 9.8 Se6

English translation in its Rpt. E-3,App. A. 173.3 In83Ad

In addition to general information, specific instructions are given for its use against horn flies (Siphona irritans) and cattle ticks (Boophilus annulatus).

615. TISSOT, A. N. DDT on cattle and in dairies. Fla. Agr. Expt. Sta. Press B. 630,4 p. Jan.1947. 100 F66S

616. U. S. BUR. OF ENTOMOLOGY AND PLANT QUARANTINE. DIV. OF INSECTS AFFECTING MAN AND ANIMALS. Uses of various DDT formulations for the control of insects affecting man and animals. U. S. Bur. Ent. & Plant Quar. E-714,9 p. Mar.1947. 1.9 En83

Includes briefly amounts and methods for using DDT for control, chiefly, of Siphona irritans.

617. WEST, T. F., and CAMPBELL, G. A. DDT and newer persistent insecticides. Ed. 2. London, Chapman & Hall,1950. 632 p., illus. Ref. 423 W524

Ch. XI, DDT against other pests affecting men and animals, includes Cattle lice and ticks, p.284-285, Deer flies, p.288-289, Gulf Coast tick, p.300, Hornflies and flies on cattle, p.301-303, Spinose ear tick, p.313-314, Warble fly, p.316; Ch. XV, Benzene hexachloride, includes Cattle ticks [Boophilus annulatus microplus, with table], p.514, Infestations of cattle, p.532-533, Livestock sprays, p.533, Ticks, p.539-540.

The above material contains many references to copious bibliographies at the end of each chapter.

MANAGEMENT

General

618. ATHANASSOF, N. Marcação dos bovinos. São Paulo. Sec. da Agr. B. de Agr. 49:251-260,illus. 1948,pub.1949. 9.2 Sa63

619. BLACK, W. H. Feed-lot and ranch equipment for beef cattle. U. S. D. A. Farmers' B. 1584,rev.,18 p.,illus. May 1940. 1 Ag84F

620. COBB, W. T. Beef cattle - herd management. La. Agr. Col. Ext. C. 226,4 p. May 1936,reprinted Dec.1941. 275.29 L93C U. S. Dept. of Agriculture cooperating.

621. CUFF, R. L. Bruised cattle lose money for growers and processors. Coastal Cattleman 15(11):23-24,illus. Jan.1950. 43.8 C63

Chiefly discussed from the viewpoint of horn injury causing losses during transportation. Describes two dehorning methods especially applicable to conditions in the South.

622. FETHERS, G. Speying. Past. Rev. 54:199-200. Apr.15, 1944. 23 Au75

623. GAZTAMBIDE ARRILLAGA, C. Cuido de la vaca parida. P. R. Agr. Col. Ext. Spec. C. 21,3 p. June 1947. 275.29 P96Ce

624. GUATEMALA. INSTITUTO AGROPECUARIO NACIONAL. Observaciones sobre el método de la banda elástica para castraciones de terneros en regiones tropicales, por R. L. Squibb, y R. R. Caro. Guatemala. Inst. Agropecuario Nac. P. Téc. 1,8 p.,illus. Sept.1949. 102 G932P

English summary.

Use of the elastrator.

625. GUTIERREZ, R. Como se evita el crecimiento de los becerros pequeños. Agr. Mex. 59(10):11-12. Oct.1943. 8 Ag8

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Fecundity control in 154 Zebu cows, with brucellosis; comparison between natural and artificial insemination.

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Brahman (Zebu) - Associations

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811. DOMINGUES, O. Já se pode falar em raça "Indú-Brasil"? Rev. dos Criadores 20(3):93-95. Mar.1949. 43.8 R32

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821. VILLARES, J. B. Contribuição para o estudo da raça Nelore [Ongole]. I-III. Rev. Dos Criadores 16(1):6-10; (3):11-19; (4):9-15,illus. Jan.,Mar.-Apr.1945. 43.8 R32

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826. BAKER, A. L. Development of hybrid beef cattle for the Gulf Coast region. Amer. Brahman J. 4(1):7,9-11,illus. Apr.1949. 43.8 Am33

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827. BORGES, R. A. A proposito do premio para o "Raçador". [Santa Gertrudis breed]. Bahia. Coop. Inst. de Pecuária. B. 6(38):23-26,illus. Apr./June 1943. 49.9 B14

828. BRAFORD cattle rapidly coming to forefront in Coastal livestock picture; new breed combines best Brahman and Hereford qualities. Coastal Cattleman 6(4):5-6,illus. June 1940. 43.8 C63

829. BRAY, C. I. Brahman crossbreeding in Louisiana. Tex. Livestock J. 7(5):45-46,50,illus. May 15,1948. 49 T29

At Jeanerette, La.

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830. BROOKS, H. J. Informe sobre los resultados obtenidos con el ejemplar mestizo Cebu criollo, no. 4/20 beneficiado en el Frigorifico Nacional. Vida Agr. 21:640-643. Aug.1944. 9.8 V66

831. CAMPOS, R. M. E o Caracú? Chacaras e Quintais 72: 363-364,illus. Sept.15,1945. 9.2 C34

Possibilities of crossing Caracú and Zebu for production of better meat in Brazil.

832. CARNEIRO, G. G. O emprego do Zebú na formação do gado de corte nos trópicos. Ceres [Vicosa] 5(25):17-26. Sept./Oct. 1943. 9.2 C332

Use of Zebu in forming cattle for beef in the Tropics. Discusses crosses with other breeds.

833. CATES, J. S. Gulf Coast beef goes Brahman hybrid. Country Gent. 116(5):25,80. May 1946. 6 C833

Discusses the crosses, heat-resistant qualities, and weight at 6 to 10 months of age.

834. CIPOLLONI, M. A. Brahman crossbreeds for beef production. Brahman Breeder-Feeder 15(7):16,18,20-22. July 1949. 43.8 B73

835. CORTEZ G., J. A. Desarrollo ganadero en el oriente peruano; resultados del cruzamiento del ganado bovino criollo con Cebú. Vida Agr. 21:637-640. Aug.1944. 9.8 V66

836. CORTEZ G., J. A. Resultados obtenidos con el Zebú, en la ganaderia de la montaña [in Peru]. Peru. Dept. de Ganad. Trop., Caza y Pesca. B. 2,15 p.,illus. 1943. 9.8 P433

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837. DRENNER, R. E. The Brahman [cross] and the packer. Amer. Brahman Cong. Proc. Amer. Brahman Centen. 1949:124-126. 43.9 Am392

838. GONZALEZ, A. DE J. El ganado Santa Gertrudis en la isla de Turiguanó. Asoc. Gen. de Agr. B.99:3-4; 101:3-4. Mar.1-15,1947. 8 As52

Turiguano is an island in a Cuban inlet.

839. GONZALEZ, A. DE J. Santa Gertrudis en Turiguanó. Rev. Ganad. [Habana] 7(6):21-25,illus. June 1947. 49 R321

840. HELMAN, M. B. Reflexiones sobre el Cebu y la hibridación. Rev. Ganad. [San Salvador] 9(124/125):31-32. Mar./Apr.1950. 8 R3292

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841. HERWEIJER, C. H. Het Zebu-rund in Amerika. Nederland Indische Bl. v. Diergeneesk. 54:197-199. Oct.1947. 41.8 V51

Santa Gertrudis cattle in Texas and other Brahman cattle chiefly in Louisiana and Florida.

842. KING RANCH: la explotación pecuaria más grande de los Estados Unidos. Hacienda. 36(1):3-7,illus. Jan.1941. 6 H11

843. KLEBERG, R. J., JR. The Santa Gertrudis breed of beef cattle. Kingsville, Tex., n.d. [13] p.,illus. 43 K673

844. KNAPP, W. C., JONES, J. H., and RIGGS, J. K. Cross-breeding to increase weight of cattle in Coastal area. Tex. Agr. Expt. Sta. Prog. Rpt. 1121,2 p. May 26,1948. 100 T31P

Brahman-Hereford cross.

845. KNAPP, W. C., JONES, J. H., and RIGGS, J. K. Keep the Brahman blood on the female side. Gulf Coast Cattleman 14(5):8. July 1948. 43.8 G95

Brahman-Hereford cross on the Gulf Coast.

846. MCCARTHY-BARRY, L. J. El Cebú y el Charolais dos razas que pueden resolver un problem ganadero de suma importancia. Rev. Pecuaria, 97:30-31,33. Nov.1946. 49 R326

This cross produces first quality beef.

847. MARTIN, J. W. Cotulla area polled Zebus attracting national attention. Zebu J. 2:10-11,illus. June 1950. 43.8 Z12

"Exceptional size and weight for age."

848. MARTIN, R. G. Zebu cattle have proven their ability to excel as beef producers with universal adaptability, national secretary [Pan American Zebu Association] declares in tracing their development in the United States. West. Livestock Rptr. 46:4,20-21, illus. July 7,1948. 286.85 W523

Chiefly by crossing with other breeds. Work of the Pan American Zebu Association is described.

849. MAULE, J. P. Improvement of British cattle. X. Improvement of cattle in hot climates. Farming 3:81-85,illus. Mar.1949. 10 F2236

Methods of breeding for cattle improvement in the Tropics apply to South America generally although Jamaica and Trinidad are the only Western Hemisphere countries discussed. The chief emphasis is on crossing Brahman strains on British breeds in Africa.

850. EL MEJORAMIENTO del ganado vacuno de carne y de

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leche en la America tropical. Rev. Pecuaria, 60/63:25-28,illus. Sept./Dec.1943. 49 R326

Improvement through breeding with Brahman and Africander, chiefly in Brazil and Texas

851. MOREJON PUIG, L. F. Cruzamiento y selección como métodos de mejora ganadera. Rev. Ganad. [Habana] 4(5/6):19-22. May/June 1944. 49 R321

Chiefly in connection with the development of the Santa Gertrudis cattle on the King Ranch in Texas.

852. MORRIS, D. J. Historic "Old Prairie Home" now making history in cattle industry; Shorthorn-Brahman cross [Brahorn] being developed by A. P. George. Coastal Cattleman 10(11):9-10. Jan.1945. 43.8 C63

853. LAS NUEVAS razas bovinas, adecuadas a las regiones de clima cálido, provenientes del Cebú. Res 9(177):11.420-11.422,illus. May 20,1941. 286.85 R31

854. PAGOT, J. R. L'Elevage dans la zone subtropicale des Etats-Unis (Comparaison avec l'Afrique occidentale). Rev. d'Elevage et de Med. Vet. des Pays Trop. (n.s.) 3:167-174. Oct.-Dec.1949. 41.8 R3262

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855. PAIVA, O. M., and D'ERRICO, A. A. Distância da papilla duodeni hepatica á papilla duodeni pancreatica em bovinos mestiços de Zebu. São Paulo. U. Facul. de Med. Vet. Rev. 4(1):5-26. Dec.1949. Ref. 41.8 Sa6

English summary.

Distance from the papilla duodeni hepatica to the papilla duodeni pancreatica in Brahman crossbreds.

856. PAIVA, O. M., and RIBEIRO, P. DE A. Distância do Torus pyloricus á Papilla duodeni hepatica em bovinos mestiços de Zebu (estudo estatístico sobre 411 observaçoes). São Paulo. U. Facul. de Med. Vet. Rev. 3(4):223-246. June 1948. Ref. 41.8 Sa6

English summary.

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858. PINZON N., E. Conclusiones de una conferencia sobre la raza Cebú. Ganado 2(8):30-31,33,illus. June 1948. 49 G153

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859. RHOAD, A. O., and BLACK, W. H. Hybrid beef cattle for subtropical climates. Brahman Breeder-Feeder 15(10):23,26-30, illus. Oct.1949. 43.8 B73

Brahman crosses.

860. RHOAD, A. O. Problemas en el mejoramiento de los bovinos en el tropico. Rev. Pecuaria 66/67:11-13. 1944. 49 R326

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861. RHOAD, A. O. The Santa Gertrudis breed; the genesis and the genetics of a new breed of beef cattle. J. Hered. 40:115-126,illus. May 1949. 442.8 Am3

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863. SANTA Gertrudis cattle; how a splendid new coastal breed

was originated and developed [at King Ranch, Texas]. Coastal Cattleman 6(1):23-26,illus. Mar.1940. 43.8 C63

864. SAO PAULO, BRAZIL. DEPARTAMENTO DE FOMENTO DA PRODUCAO VEGETAL. A seleção do Zebúno Rancho Hudgins e o gado Santa Gertrudís, por F. P. Cardoso. São Paulo, Mar.1940. 7,8 p. 43 Sa62

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866. SOUTHWEST'S best range breed; the Santa Gertrudis withstand all adverse range conditions best. Shorthorn World 29(1):11-13. Mar.10,1944. 43.8 Sh8

867. TABOR, G. E. Ninety-nine years of cross-breeding. Brahman Breeder-Feeder 14(6):5-6,8-9,12-15,29,illus. June 1948. 43.8 B73
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869. LEROY, A. M. O gado Charolês no Brasil. Granja [Porto Alegre] 5(42):24. Apr.1949. 9.2 G76
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871. DIAS, E. C. O gado Caracú sob o sistema de retiros. Rev. Ceres 7:383-402,illus. June/Sept.1948. 9.2 C332
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10. O gado Caracú e seu melhoramento pela seleção progressiva. Rev. Rur. Bras. 24:61-62. June 1944. 9.2 B733

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880. OLIVEIRA, G. DE. A criação de gado Caracú nos pantanais de Mato Grosso. Rev. Rur. Bras. 24(284):33-35. Apr.1944. 9.2 B733

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899. TEXAS HEREFORD ASSOCIATION. Texas Hereford directory, Vol. 6,1947/48. Dallas,1947. 136 p. 225 T316

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902. ABADIA MORALES, J. Mensaje a los criadores de Romo-Sinuano. Vida Rur. 9(106/107):20-21,illus. May/June 1948. 9.4 V66
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903. CARRASQUILLA MITRE, A. Ganado vacuno Romo-Sinuano. Rev. de Agr., Com. e Indus. [Panama] 7(75):32. Nov.1947. 8 R3291
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904. ESCOBAR MENDEZ, V. Cooperacion al estudio de la raza criolla "Romo-Sinuana". Rev. de Med. Vet. [Bogotá] 10:451-483, illus. Ref. May/Aug.1940. 41.8 R3214
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907. SANTIAGO MEJIA. El ganado "Romo-Sinuano" un producto de Colombia. Agr. Trop. 1(8):23-29; (9):29,31-36; (10):23-26; (11):19-22,illus. Sept.15,Oct.15,Nov.15,Dec.15,1945. 26 Ag8

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914. TAGLE, E. C. Bovinos de carne; su cría. Rev. Ganad. [Habana] 11(3):57-64. Mar.1951. 49 R321
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915. WEILAND, A. H. In the Florida Everglades; the introduction of Shorthorn bulls has resulted in marked improvement in Florida's cattle. Shorthorn World 28(11):72,126-129,illus. Aug.25,1943. 43.8 Sh8

Feeds and feeding

General

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917. ANDREASI, F. Alimentação dos bovinos; papel da alimentação na formação das raças - algumas considerações sôbre a influência da alimentação na formação do gado bovino da raça Caracú. Rev. Rur. Bras. 24(292):54-56. Dec.1944. 9.2 B733

918. BARNES, G. W., SMITH, A. L., and JONES, J. H. Fattening beef cattle. Tex. Agr. Col. Ext. Food Prod. Ser. 30,2 p. June 1942. 275.29 T312Fo

919. BARNES, G. W., and SMITH, A. L. Guide for feeding beef calves. Tex. Agr. Col. Ext. C. 226,rev.,11 p.,illus. June 1947. 275.29 T312C

920. BECKER, R. B., and HENDERSON, J. R. The welfare of cattle on Florida pastures. Amer. Soc. Agron. J. 32:185-189. Ref. Mar.1940. 4 Am34P
Results of study indicate need for adding lacking nutrients, either to the available pasture areas or directly, as supplementary feed for the animal itself.

921. BOURNE, B. A., and NIELSEN, C. J. Finishing range steers without grain. Fla. Cattleman and Dairy J. (Soeast. Ed.) 7(12): 15-18,illus. Ref. Sept.1943. 43 F66
Cane molasses is featured.

922. CATTLE studies aimed at Florida herd improvement. Mfrs. Rec. 114(9):135,154,156. Sept.1945. 297.8 M31
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923. CHIEFFI, A. Criação de bezerros. Soc. Rur. Bras. Rev. 30(359):20-24,illus. Oct.1950. 9.2 B733
Raising steers.

924. COBB, W. T., and GAYDEN, H. P. Creep feeding calves. La. Agr. Col. Ext. C. 237,rev.,7 p. Mar.1947. 275.29 L93C
U. S. Dept. of Agriculture cooperating.
Gives detailed plan including bill of materials.

925. CROCKETT, S. P. Shocked sorghum a satisfactory ration for wintering [beef] herd. Miss. Farm Res. [Miss. Sta.] 10(4):2. Apr.1947. 100 M69Mi

926. CULLISON, A. E. Rations to winter the beef herds. Miss. Farm Res. [Miss. Sta.] 3(11):1,8. Nov.1940. 100 M69Mi

927. CUNHA, T. J., and GLASSCOCK, R. S. Feeding of Irish potatoes entails use of supplements to provide balanced diet; precautions which should be taken by cattle and hog men. Fla. Cattleman 13(8):8. May 1949. 43.8 F66

928. DACY, G. H. Good grass alone isn't enough. Fla. Cattleman 4(10):6,9,11-13. July 1940. 43.8 F66

Discusses various concentrates and the conditions in Florida for growing them.

929. DAVIS, G. K. Feeding stock [in Florida] for best gains; good pasture plus supplements does job. Fla. Grower 56(2a):4,32. Feb.1948. 80 F6622

930. DAVIS, G. K. Range cattle face feed problem; best ways to use wartime feed to minimize winter losses. Fla. Grower 52(1):10. Jan.1944. 80 F6622

931. DICKSON, R. E., and others. Fattening yearling steers. Tex. Agr. Expt. Sta. Prog. Rpt. 962,1 p. 100 T31P

C. E. Fisher, J. H. Jones, and J. M. Jones, joint authors.

Summary of 139 day feeding test shows costs and returns.

932. GATES, A. S. Wintering beef cows in the rice area. Baton Rouge,1943. 64 p.,illus. La. State U. Libr.

Thesis (M. S.) Louisiana State University.

Chiefly experiments in feeding: average weights, gains and losses, and percentage calf crop as affected by various combinations of rice straw, mineral supplements and concentrates.

933. GOMEZ, J. J. El sisal: una probable fuente de rico alimento para el ganado vacuno. Rev. de Agr., Indus. y Com. de P. R. 35:222-224. May/Dec.1944. 8 R325

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934. GUILBERT, H. R., and GREGORY, P. W. Feed utilization tests with cattle. J. Anim. Sci. 3:143-153. May 1944. 49 J82

As related to rate of growth.

935. HARBAUGH, F. G. Nutrition and rations of farm animals. Tex. Vet. B. 8(1):4-8. Jan.1946. 41.8 T31

Includes beef cattle and also gives general information which is applicable.

936. HARRISON, E. Digestibility trials on green fodders; experiments conducted at the Imperial College of Tropical Agriculture, 1931-41. Trop. Agr. [Trinidad] 19:147-150. Aug.1942. 26 T754

Includes a table showing composition.

937. HENKE, L. A. Beef and dairy resources in Hawaii. Pan Pacific 4(4):10-12. Oct./Dec.1940. 286.8 P192

938. HENKE, L. A., WORK, S. H., and BURT, A. W. Beef cattle feeding trials in Hawaii. Hawaii. Agr. Expt. Sta. B. 85,37 p. June 1940. 100 H313

Cane molasses supplementing either pigeonpea or koa-haole pastures proved a desirable combination.

939. HODGES, E. M., KIRK, W. G., and JONES, D. W. Freeze reduces protein in grass, makes careful use of feed almost essential; Range Cattle Station makes recommendations for most economical emergency rations to maintain weights in Florida cattle. Fla. Cattleman 15(5):23. Feb.1951. 43.8 F66

940. JONES, J. H., and WHITFIELD, C. J. Pasturage alone for fattening yearlings. Cattleman 30(11):35. Apr.1944. 49 C29

941. JONES, J. H., and others. The use of Sudan grass pastures and other feeds [concentrates] for beef production. Tex. Agr. Expt. Sta. B. 599,29 p. Mar.1941. 100 T31S

J. M. Jones, R. A. Hall, and E. M. Neal, joint authors.

942. JONES, J. H., and others. The winter maintenance of calves; Substation No. 1, Beeville, Texas, November 16, 1938 to May 15, 1939 - 180 days. Tex. Agr. Expt. Sta. Prog. Rpt. 669,3 p. Mar. 1940. 100 T31P

R. A. Hall, J. M. Jones, and E. M. Neal, joint authors.

943. KIDDER, R. W., and KIRK, W. G. Cattle feeding in southern Florida. Fla. Agr. Expt. Sta. B. 360,23 p. 1941. 100 F66S

944. KIDDER, R. W. Fattening steers on Everglades winter pasture. Fla. Agr. Expt. Sta. B. 456,19 p.,illus. Feb.1949. 100 F66S

With the addition of concentrates.

945. KIDDER, R. W. Fattening steers on winter pasture with ground snapped corn, ground shallu heads, molasses and cottonseed meal. Fla. Agr. Expt. Sta. B. 391,14 p. 1943. 100 F66S

946. KIRK, W. G. Enormous cattle loss due to lack of feed... winter losses due to starvation...ways of combating severe losses suffered by Florida cattleman. Fla. Cattleman 11(3):6,30-31,illus. Dec.1946. 43.8 F66

947. MARION, P. T., and others. Cattle feeding studies at the Spur Station, 1947-48. Tex. Agr. Expt. Sta. Prog. Rpt. 1126,4 p. July 12,1948. 100 T31P

R. E. Dickson, C. E. Fisher, and J. H. Jones, joint authors.

Beef quality as related to fattening mainly on pasture or feed high in carotene.

948. MONTEIRO, F. P. O problema da alimentação do gado no tempo da sêca [in São Paulo]. Rev. Rur. Bras. 24(288):82-87,illus. Aug.1944. 9.2 B733

Also in Rev. Rur. Bras. 26(313):15-20,illus. Sept.1946. 9.2 B733

The illustrations are different but text the same.

949. MORRISON, F. B. Recent discoveries in cattle nutrition. Amer. Brahman Cong. Proc. Amer. Brahman Centen. 1949:67-83, illus. 43.9 Am392

950. NATIONAL RESEARCH COUNCIL. COMMITTEE ON ANIMAL NUTRITION. Recommended nutrient allowances for domestic animals. No. iv. Recommended nutrient allowances for beef cattle. Washington,Sept.1945. 32 p.,illus. Ref. 389.7 N2122

Prepared by the Sub-Committee on Beef Cattle, H. R. Guilbert, Chairman, P. Gerlaugh, and L. L. Madsen.

951. NEAL, W. M. Present knowledge of the nutritional value of grassland herbage. Amer. Soc. Agron. J. 33:666-670. July 1941. 4 Am34P

952. REVEILLEAU, A. Alimentação dos bovinos. Brazil. Min. da Agr. B. 32(2):1-24. Feb.1943. 9.2 Ag83

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953. ROGERS, J. VAN, JR. Planning feed production. Amer. Brahman Cong. Proc. Amer. Brahman Centen. 1949:36-39,illus. 43.9 Am392

954. RUIZ MARTINEZ, C. Alimentación racional del ganado. Caracas, Dirección de Ganaderia, 1947. 98 p. 389.7 V55

955. SCHNEIDER, B. H. Feeds of the world; their digestibility and composition. Morgantown, W. Va. Agr. Expt. Sta.,1947. 299 p. 241 Sch54

Partial contents: Sect. 1. Author bibliography of researches on the digestibility and composition of feeding stuffs; Sect. 2. Feed bibliography of researches on the digestibility and composition of feeding stuffs; Sect. 3. Common and scientific names of plant and animal sources of feeding stuffs; Sect. 4. Digestibility and composition of feeding stuffs. Table 1..... cattle.

The first three sections list separately cows, steers, and bulls.

956. SHANNON, J. L. Cattle raising as adjunct to citrus growing in Trinidad. Agr. Soc. Trinidad & Tobago. Proc. 40:215-217,219-222. Sept.1940. 8 T73

Water buffaloes are replacing Zebus because of their hardiness, strength and ability to use coarse fodder.

957. SHEALY, A. L. Getting maximum from cattle. Fla. Grower 56(10):25. Oct.1948. 80 F6622

Chiefly feeding. Gives the mineral mixture recommended for Florida cattle.

958. SHEALY, A. L. Maintenance and growth requirements in the rations of fattening steer. (Abs.) Assoc. South. Agr. Workers. Proc. 43:98-99. 1942. 4 C82

959. SHEELY, W. J. Winter feeding of the beef herd; a judicious program gives quality and increase. Fla. Grower 51(1):10. Jan. 1943. 80 F6622

960. SIMORRA, J. Estudio sobre Ceba combinada de vacuno con mazorca de maiz completa y mieles finales en un plan de alimentación mixta. Rev. Ganad. [Habana] 5(7/8):37-40. July/Aug.1945. 49 R321

961. SNELL, M. G. Native livestock feeds for Louisiana. Coastal Cattleman 6(3):8-10. May 1940. 43.8 C63

962. SNELL, M. G., and others. Wintering beef cows in the rice area [of Louisiana]. La. Agr. Expt. Sta. B. 387,31 p. Ref. Oct. 1944. 100 L93

C. I. Bray, F. L. Morrison, M. Jackson, and A. S. Gates, joint authors.

Swift & Co., Lake Charles, La. cooperating.

Rice straw and pasture represented basic feeding in all the experiments.

963. TORRES BARRETO, M. J. Principios generales sobre alimentación y cuidados de terneros en hatos de selección. Rev. Nac. de Agr. 41(512):18-20. Dec.1947. 9.4 R32

964. VENEZUELAN COMMISSION OF INTER-AMERICAN DEVELOPMENT. Venezuela. Conf. Comns. Inter-Amer. Devlpmt. Rpts. 1,[12],39 p. Washington,Inter-Amer. Devlpmt. Comn.,1944, pub.1946? 280.9 C7693

Cover-title.

Translation from the Spanish original.

Suggests increasing the manufacture of livestock feed and animal byproducts.

965. VILARES, J. B. A criação de bovinos no equilibrio agropecuário de São Paulo. Colheit. e Mercad. 3(11/12):15-20. Nov./Dec. 1947. 255.3 Sa652

Conservation and fertilization insure better use of the soil and better health of cattle who feed on its products.

966. WARD, W. F. Grasses for better pastures; progress report on grazing experiments with steers [in Florida]. Fla. Grower 48(1):19. Jan.1940. 80 F6622

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967. WASSON, R. A. Pasture and feed for profitable beef. La. Agr. Col. Ext. C. 267,7 p. Nov.1946. 275.29 L93C

U. S. Dept. of Agriculture cooperating.

Permanent pasture and supplementary grazing.

968. WORK, S. H. Digestible nutrient content of some Hawaiian feeds and forages. Hawaii. Agr. Expt. Sta. Tech. B. 4,22 p. Ref. Dec.1946. 100 H313T

Feeds

969. ALARCON CH., P. J. Riquezas que se botan: la pulpa del café. Agr. Trop. 2(7):13-16. Aug.1946. 26 Ag8
As feed for cattle.

970. BARRENTINE, B. F., and LEVECK, H. H. Steers fed wood product in experiment. Miss. Farm Res. [Miss. Sta.] 11(9):8,illus. Sept.1948. 100 M69Mi
A single feeding trial comparing the nutritive value of wood molasses and corn.

971. BARRENTINE, B. F., and LEVECK, H. H. Wood molasses may replace part of corn in steer feed. Miss. Farm Res. [Miss. Sta.] 12(9):1,3. Sept.1949. 100 M69Mi
Further experiments consisting of two feeding trials, one being the reversal of the other, to determine the nutritive value of each feed.

972. BECKER, R. B., ARNOLD, P. T. D., and DAVIS, G. K. Citrus by-products as feeds for cattle. Fla. Agr. Expt. Sta. Press B. 644,4 p. Mar.1948. 100 F66S
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973. BECKER, R. B., and others. Citrus molasses - a new feed. J. Dairy Sci. 27:269-273. Apr.1944. 44.8 J822
P. T. D. Arnold, G. K. Davis, and E. L. Fouts, joint authors.

974. BENNETT, H. W. The present status of the program for determining the complete usage of the sweet potato plant for silage and other types of feed. (Abs.) Assoc. South. Agr. Workers. Proc. 43:68-70. 1942. 4 C82
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U. S. Bureau of Animal Industry cooperating.

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Analysis - Minerals

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Partial contents: Composition and production of defluorinated superphosphate, by G. K. Davis; Defluorinated superphosphate for

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1054. BECKER, R. B. Minerals in livestock feeds. Flour & Feed 48(9):30-31. Feb.1948. 298.8 F66

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L. H. Tash, J. M. Jones, and R. J. Kleberg, Jr., joint authors.

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1057. BLACK, W. H., and BURCH, D. S. Producing more beef on phosphorus-deficient ranges. U. S. Agr. Res. Admin. Res. Achievement Sheet 7(A),2 p. Aug.15,1944. 1.98 R31

Texas Agricultural Experiment Station and King Ranch, Tex. cooperating.

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Methods of handling deficiencies for cattle in Florida.

1060. DAVIS, G. K., KIDDER, R. W., and COMAR, C. L. Copper deficiency in cattle. (Abs.) J. Anim. Sci. 5:393. Nov.1946. 49 J82

1061. DAVIS, G. K. Mineral nutrition of livestock. (Abs.) Assoc. South. Agr. Workers. Proc. 44:79-80. 1947. 4 C82

Summarizes findings as to mineral deficiencies in the Southeast.

1062. DAVIS, G. K. Phosphorous vital to animals; recognizing and preventing a costly deficiency. Fla. Grower 56(1a):4,25,28. Jan. 1948. 80 F6622

1063. ERWIN, T. C. The occurrence of molybdenum in pasture and forage crops of South Florida - a limited survey. Soil Sci. Soc. Fla. Proc. 8:40-43. Ref. 1946,pub.1947. 56.9 So32

Discusses also relative toxicity of molybdenum to cattle.

1064. FRAPS, G. S., and FUDGE, J. F. Iodine in drinking waters, vegetables, cottonseed meal and roughages [and grass]. Tex. Agr. Expt. Sta. B. 595,25 p.,map. Ref. Nov.1940. 100 T31S

As a result of the study, the use of iodized mineral mixtures in feeds is not recommended for Texas.

1065. GAZTAMBIDE ARRILLAGA, C. Los minerales como suplemento en la alimentación de los animales [in Puerto Rico]. P. R. Agr. Col. Ext. Spec. C. 17,6 p.,folder. June 1943. 275.29 P96Ce

1066. HENSON, J. N., JR. Interrelationships of copper and molybdenum upon phosphorus metabolism and alkaline blood phosphatase levels in cattle. Baton Rouge, Sept.1949. 58 p.,illus. Ref. Fla. Agr. Expt. Sta. Libr., Gainsville.

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1068. KIDDER, R. W. The influence of trace elements on animal nutrition under Everglades conditions. Soil Sci. Soc. Fla. Proc. 8:25-31. 1946,pub.1947. 56.9 So32

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1071. NEAL, W. M. Rare minerals in animal nutrition. (Abs.) Assoc. South. Agr. Workers. Proc. 43:33-34. 1942. 4 C82

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1072. REY DE CASTRO, A. Necesidades y uso de sales minerales para el ganado. Serv. Coop. Interamer. de Prod. de Aliment. Ser. Inform. Téc. 23,3 p., illus. Feb.1947. 9.8 Se6

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1074. RUSOFF, L. L. Distribution of "trace elements" in the newborn calf as influenced by the nutrition of the dam. Fla. Agr. Expt. Sta. B. 359,47 p. Ref. June 1941. 100 F66S

As related to a nutritional disease, a condition locally known in Florida as salt sick.

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1076. SIMORRA, J. Fosforo en la alimentación del ganado vacuno. Rev. Ganad. [Habana] 8(2):23-24,illus. Feb.1948. 49 R321

1077. SNELL, M. G. Consideration of proper minerals important in feeding of coastal beef and dairy cattle; percentages required in feeds. Coastal Cattleman 6(11):5-6,illus. Jan.1941. 43.8 C63

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J. M. Jones, E. B. Reynolds, W. H. Black, R. J. Kleberg, Jr., and R. L. Hensel, joint authors.

U. S. Bureau of Animal Industry and King Ranch cooperating.

1079. VOGELMAN, L. Minerals and livestock problems. Tex. Vet. B. 8(7):6-7. July 1946. 41.8 T31

Discusses specific value of the chief minerals, as well as the different symptoms arising from their lack.

1080. VOLLRATH, H. Feeding minerals to livestock [in Hawaii]. Hawaii. U. Agr. Ext. C. 207,8 p. Sept.1946. 275.29 H312Ac

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PASTURE AND RANGE

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1312. AAMODT, O. S. Climate and forage crops. U. S. D. A. Ybk. 1941:439-458,illus.,maps. Ref. 1 Ag84Y

1313. AGUILAR G., J. I. Forrajes y plantas forrajeras. México, Trucco,1946. 374 p.,illus. 60 Ag9F
Silos y ensilajes, p.349-357.

1314. AGUILAR G., J. I. Nuevos recursos forrajeros de Guatemala. Rev. Agr. Guatemala Dir. Gen. de Agr. 20:28-32. July/Sept. 1943. 8 G934
Analysis of Cereus undatum, Pennisetum setosum, Sechium edule,

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Pachyrhizus palmatilobus, and Dioscorea convolvulacea for fresh forage.

1315. AHLGREN, G. H. Forage crops. New York,McGraw-Hill, 1949. 418 p.,illus. Ref. 60 Ah4

Partial contents: Ch. 10, Lespedezas; Ch. 11, The kudzu vine; Ch.19, Johnson grass and Bermuda grass; Ch. 20, Sudan grass and sorgo.

Several other chapters have some material applicable to the Gulf Coast region.

1316. ALBERTS, H. W. The forage resources of Latin America - Peru. Imp. Bur. Pastures & Forage Crops. B. 37,24 p. 1947. 64.8 Im7

Partial contents: Pasture and range lands; Classes of grazing animals (beef cattle in the Coastal and Sierra Regions, chiefly the latter); Pasture and range herbage; Poisonous plants; Pasture and range management; Relative palatibility of pasture and range herbage; Grazing capacity; Index of genera and species.

1317. ANDERSON, E. Dos problemas divergentes de pastos tropicales y de altura, recomendaciones y surgerencias. Serv. Coop. Interamer. de Prod. de Aliment. Ser. Inform. Téc. 41,12 p. Oct.1948. 9.8 Se6

In Peru.

1318. ANDRADE, B. M. Feno e fenação. V. Forrageiras para fenação. Rev. dos Criadores 14(13):37-40. Sept.1943. 43.8 R32

1319. ANDRADE, B. M. Principais forrageiras. Rev. dos Criadores 18(2):40-42; (3):40-42; (4):47-49; (5):48-50; (6):39-40; (7):58; (8):85-86,illus. Feb.-Aug.1947. 43.8 R32

Partial contents: 1, Propagation, cultivation and preparation of the soil and classification of forage plants according to use; 2-7, Description of individual grasses, legumes, and other forage plants.

1320. ANTHONY, K. R. M., and HUNTER-SMITH, J. D. Preliminary grazing trials in Trinidad. Trop. Agr. [Trinidad] 22:143-145. Aug.1945. 26 T754

As the result of experiments on the relative suitability of certain forage plants, elephantgrass interplanted with Indigofera endecaphylla or creeping indigo, was considered promising.

1321. BADILLO, V. M. Consideraciones acerca del problema forrajero en Venezuela. Agro 3(1/2):17-21. Ref. Jan./Apr.1948. 9.95 Ag83

Forage for beef and dairy cattle.

1322. BAIR, R. A. Grass for year 'round grazing praised ... at Everglades [Experiment Station] field day, May 2. Fla. Cattleman 11 (9 i. e. 10):10,12-13,24,illus. July 1947. 43.8 F66

Lists about eighty-five forage plants for southern Florida, indicating relative merit and giving both common and scientific name. Considered preliminary.

Describes, briefly, other activities of the Station.

1323. BLASER, R. E., and others. Carpet grass and legume pastures in Florida; their growth, composition and contribution to beef production. Fla. Agr. Expt. Sta. B. 453,36 p.,illus. Dec.1948. 100 F66S

R. S. Glasscock, G. B. Killinger, and W. E. Stokes, joint authors.

1324. BLASER, R. E. Florida pasture plants compared in table. Fla. Cattleman & Dairy J. (Soeast. Ed.) 7(12):12-14,28. Sept.1943. 43 F66

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1325. BROWN, O., and YATES, H. F. White Dutch clover-Dallis grass pasture for the Gulf Coast area of Alabama. Ala. Agr. Expt. Sta. Prog. Rpt. Ser. 36,3 p. Aug.1947. 100 AL1M

1326. BURTON, G. W., MCBETH, C. W., and STEPHENS, J. L. The growth of Kobe lespedeza as influenced by the root-knot nematode resistance of the Bermuda grass strain with which it is associated. Amer. Soc. Agron. J. 38:651-656,illus. July 1946. 4 Am34P
Resistance to root-knot nematode (Heterodera marioni).

1327. CORREA, A. El cultivo de yerbas forrajeras en Puerto Rico. P. R. Agr. Ext. B. 19:1-24,illus. Ref. Apr.1943. 275.29 P96

1328. CULBERTSON, R. E., and CARVAJALINO JACOME, L. J. Plantas forrajeras y su utilización en Colombia. Caja de Credito Agr., Indus. y Min. B. 4,147 p.,illus. Bogotá,1945. 9.4 C122
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1329. CUNHA, L. A. DA. As pastagens para o gado. Soc. Rur. Bras. Rev. 28(335):36-37,illus. Aug.1948. 9.2 B733
Analysis of forage plants.

1330. ESCOBAR, A. La remolacha forrajera. Agr. Mex. 59(10): 33-40. Oct.1943. 8 Ag8

1331. FORSEE, W. T., JR. The composition of various forage crops and forage materials in South Florida with particular reference to certain vitamins and trace elements. Soil Sci. Soc. Fla. Proc. 8: 35-39. 1946,pub.1947. 56.9 So32

1332. FRAPS, G. S., and FUDGE, J. F. The chemical composition of forage grasses of the east Texas timber country. Tex. Agr. Expt. Sta. B. 582,35 p. Ref. Mar.1940. 100 T31S
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1333. FREYRE, R. H. Introduced grasses and legumes play important double role in Puerto Rico. U. S. Agr. Res. Admin. Res. Achievement Sheet 122,2 p. Aug.1949. 1.98 R31

1334. FUDGE, J. F., and FRAPS, G. S. The chemical composition of forage grasses from the Gulf Coast prairie [of Texas] as related to soils and to requirements for range cattle. Tex. Agr. Expt. Sta. B. 644,39 p. Ref. Jan.1944. 100 T31S
A table on page 8 gives the common and botanical names of the species sampled. Includes a few of the legumes.

1335. GAMMON, N., JR., and others. First-year yields from Louisiana white clover-Dallis grass [Paspalum dilatatum] pasture plots on Carnegie and Tifton fine sandy loams. Fla. Agr. Expt. Sta. C. S-19,5 p. Sept.1950. 100 F66C1
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1336. GILARDI R., L. Cultivos asociados de plantas forrajeras. Peru. Dir. de Ganad. e Indus. Pecuarias. Ganad. 2(6):34-37. Sept. 1948. 49.9 P433

1337. GONZALEZ, A. DE J. Plantas forrajeras y su aprovechamiento en Cuba. Rev. de Agr. Com. y Trab. [Cuba] 11(9):74-92. Mar.1930. 8 Ag88Re

1338. GRAY, J. P. The response of southern grasses and legumes to environmental factors as expressed by the chart quadrat method of studying. (Abs.) Assoc. South. Agr. Workers. Proc. 42: 99-100. 1941. 4 C82

1339. HALL, M., ed. Five hundred varieties of herbage and fodder plants. Commonwealth Bur. Pastures & Field Crops. B. 39,316 p. 1948. 64.8 Im7
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Pt. 2, p.297-316, consists of an index of references to varieties in Herbage Abstracts, vols. 1-17,1931-1947, compiled by Mrs. I. Troke.

1340. IMPERIAL BUR. OF PASTURES AND FORAGE CROPS. The provision of animal fodder in tropical and subtropical countries. Pt. 1. Imp. Bur. Pastures & Forage Crops. B. 31,84 p. 1944. 64.8 Im7

Partial contents: West Indies: Grassland management, by D. D. Paterson; Hawaii: [1] Vegetation zones, by A. R. Beddows; [2] Research on fodder production, by R. O. Whyte,

1341. KLIEN, E. Pastos naturales del Departamento de Piura [Peru]. Peru. Dir. Gen. de Agr. B. 16:197-220. 1943. 9.8 P43B

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1342. KOK, E. A. Análises de plantas forrageiras; contribuição para o conhecimento do valor nutritivo de algumas forragens nativas e exóticas. Rev. de Indús. Anim. 9(1):53-69. Jan.1940. 49 R324

1343. KOK, E. A. Forrageiras para feno. São Paulo (State). Sec. da Agr., Indús. e Com. Dir. de Publicidade Agr. Notas Agr. 6:419-423. 1943. 31.9 Sa63

1344. KOK, E. A., and SOUSA JUNIOR, J. O. DE. Forragens verdes. Campos e pastos. São Paulo. Dir. de Publicidade Agr. Notas Agr. 7:111-123. 1949. 31.9 Sa63

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Contents: Forragens para pastos, p.111-113, by E. A. Kok; Forragens para pequenos pastos, p.113-115, by E. A. Kok; Prados e capineiras, p.115-117, by E. A. Kok; Leguminosas forrageiras, p.117-119, by E. A. Kok; A mucuno na alimentação do gado, p.119-121, by E. A. Kok; Forragens para inverno, p.121-123, by J. O. de Sousa Junior.

1345. KOK, E. A. Produção forrageira nas fazendas. Soc. Rur. Bras. Rev. 27(321):26-27,illus. May 1947. 9.2 B733

1346. KOK, E. A., MACHADO, L. DE B., and ROCHA, G. L. DA. Valôr nutritivo de plantas forrageiras. São Paulo Dept. da Prod. Anim. B. de Indús. Anim. 14(3):18-44. July 1946. 49 R324

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1349. LOPEZ, M. S. Zacate blanco o zacate de Honduras (Ixophorus unisetus). Honduras Agr. 1(8):18-19. June 1,1945. 8 H753

1350. LOUSTALOT, A. J., and CERNUDA, C. Effect of tropical kudzu on yield and composition of forage grasses. Trop. Agr. [Trinidad] 25:41-44. Jan./Dec.1948. 26 T754

1351. MACBRIDE, J. F. Flora of Peru. Field Mus. Nat. Hist., Chicago. Bot. Ser. 13(Pt. 3, no.1-2)777 p. 1943-49. 500 C432B

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1352. MCCARTHY-BARRY, L. J. Pastos apropiados para la sel va peruana. Serv. Coop. Interamer. de Prod. de Aliment. Ser. Inform. Téc. 37,9 p. Apr.1948. 9.8 Se6

1353. MARULANDA CAICEDO, L. Forrajes nutritivos para sus ganados. Rev. Agr. y Ganad. 10(101):5-6,27. Apr./June 1947. 9.4 R327

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1354. MEANS, R. H. Value of [super]phosphate on white clover-Dallisgrass pasture [for fattening beef cattle]. Miss. Agr. Expt. Sta. Inform. Sheet 439,2 p. Dec.1949. 100 M69In
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1355. NAGEL VALDA, O. Hacia la obtención de nuevos forrajes en la "Estación Experimental de Trinidad". Rev. de Agr. [Cochabamba] 2(3):20-28. June 1945. 102.5 C64

1356. NIELSEN, E. L. Plant adaptation in the forage crop breeding program. South. Pasture & Forage Crop Impr. Conf., Rpt. 1:11-15. 1940. 60.19 So83

1357. PEREZ ARBELAEZ, E. Plantas utiles de Colombia, ensayo de botánica Colombiana aplicada. Bogota. Contraloria General de la Republica, Dirección Nacional de Estadistica, 1947. 537 p.,illus. 457.5 P41
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1358. PRINCIPALES zacates y leguminosas usados para pasto en Costa Rica. Rev. de Agr. [San José] 16:423-424. Nov./Dec.1944. 8 Es1

1359. QUIROS, M. A., and GONZALES O., C. Algunos datos sobre el cultivo de los principales pastos en Costa Rica. Rev. de Agr. [Costa Rica] 15:301-303,305. July 1943. 8 Es1
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1361. RIVERA BRENES, L. The utilization of grasses, legumes and other forage crops for cattle feeding in Puerto Rico. I. P. R. U. J. Agr. 31:180-189. Ref. Apr.1947,pub.June 1950. 8 P832J
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1362. ROCHA, G. L. DA. Pastagens e novas variedades forrageiras. Rev. dos Criadores 21(3):29-31,illus. Mar.1950. 43.8 R32
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1364. SOUZA-NOVELO, N. Zacates y otras graminàceas que viven en Yucatán. Mérida, 1949. 260 p.,illus. 60 So82

1365. U. S. SOIL CONSERVATION SERV. SOUTHEASTERN REGION. Brooksville nursery; production for greener acres. Brooksville, Fla.,1949? 7 p. 1.9602 B79
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1366. VERDOORN, F., ed. Plants and plant science in Latin America. 381 p. Ref. Waltham, Mass., Chronica Botanica, 1945. 453 V58
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1367. VINALL, H. N. Grasses and legumes for warm climates. Inter-Amer. Conf. on Agr., Forestry & Anim. Indus. Doc. Mater. 1

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1368. VINALL, H. N. Importantes pastos tropicales. Pan Amer. Union B. 68:125-140,278-291. Feb.,Apr.1934. 150.9 M76B

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1369. WATKINS, J. M., and CHAVEZ VIAUD, A. Forraje para la estación seca en El Salvador. Cent. Nac. de Agron. B. Téc. 4,16 p., illus. June 1950. 8 Sa54B

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1370. WHEELER, W. A. Forage and pasture crops; a handbook of information about the grasses and legumes grown for forage in the United States. New York, Van Nostrand,1950. 752 p.,illus. Ref. 60 W562

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1372. AKAMINE, E. K. Germination of Hawaiian range grass seeds. Hawaii. Agr. Expt. Sta. Tech. B.2,60 p. Ref. 1944. 100 H313T

1373. ALEXANDER, E. D., PRESTON, J. B., and JOHNSON, J. R. Coastal Bermuda for grazing and hay. Ga. Agr. Col. Ext. C. 355, 6 p.,folder. Jan.1949. 275.29 G29C

1374. ANDERSON, E. Campos de Gramineas. Serv. Coop. Interamer. de Prod. de Aliment. Ser. Inform. Téc. 45,11 p. Apr.1949. 9.8 Se6

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1375. ANDRADE, B. M. DE. O capim de Rhodes (Chloris gayana, Kunth). Rev. dos Criadores 16(8):26-28. Aug.1945. 43.8 R32

1376. ARAUJO, A. A. DE. A grama missioneira em pastagem artificial. Granja [Porto Alegre] 5(47/48):52-56,71,illus. Oct./Nov. 1949. 9.2 G76

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1378. AVILA DE ARAUJO, A. Asuntos agrostológicos. A seca e as gramineas resistentes. Rev. Agron. [Porto Alegre] 7:320-321. June 1943. 9.2 R325

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1382. BAKER, K. G. Utilization of Johnson grass in a beef cattle program. (Abs.) Assoc. South. Agr. Workers. Proc. 42:47-48. 1941. 4 C82

1383. BARNES, G. W., SMITH, A. L., and JONES, J. H. Sudan pasturage for beef production. Tex. Agr. Col. Ext. B. 123,[rev.] 11 p., illus. Sept.1941,reprinted Aug.1942. 275.29 T312

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1385. BENNETT, H. W. Tall growing sorghum varieties best for silage tonnage; lesser yielding ones have advantages often important. Miss. Farm Res. [Miss. Sta.] 3(5):8. May 1940. 100 M69Mi

1386. BENNETT, H. W. Variations in Johnson and Dallis grass. (Abs.) Assoc. South. Agr. Workers Proc. 41:85-86. 1940. 4 C82

1387. BERUMEN, D. O. Tres zacates forrajeros para el tropico. Tierra [Mexico, D. F.] 3:274-276,304,illus. Apr.1948. 8 T445
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1391. BLICKENSDERFER, C. B. New [Pangola] grass is giving boost to livestock production in Florida. Coastal Cattleman 15(12): 24-26,illus. Feb.1950. 43.8 C63

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1394. BRAZIL. MINISTERIO DA AGRICULTURA. INSTITUTO DE BIOLOGIA ANIMAL. SECÇAO DE AGROSTOLOGIA E ALIMENTACAO DOS ANIMAIS. Capim de planta e capim de Angolo (Panicum barbinode, Echinocloa polystachya). Brazil. Inst. de Biol. Anim. Seçc. de Agrostologia e Aliment. dos Anim. P. 9,ed.4,21 p. Rio de Janeiro, 1943. 102.5 B733

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1395. BRAZIL. MINISTERIO DA AGRICULTURA. INSTITUTO DE BIOLOGIA ANIMAL. SECÇAO DE AGROSTOLOGIA E ALIMENTAÇAO DOS ANIMAIS. A Capim de Rhodes (Chloris gayana Kunth.) Brazil. Inst. de Biol. Anim. Secç. de Agrostologia e Aliment. dos Anim. P. 2, ed.5,12 p. Rio de Janeiro,1943. 102.5 B733

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1406. BURTON, G. W. Factors influencing seed setting in several southern grasses. Amer. Soc. Agron. J. 35:465-474,illus. June 1943. 4 Am34P

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1408. BURTON, G. W. The method of reproduction in common Bahia grass, Paspalum notatum. Amer. Soc. Agron. J. 40:443-452, illus. Ref. May 1948. 4 Am34P

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1413. CARVAJALINO JACOME, L. J. Un programa agrostologico para Colombia. Agr. Trop. 1(12):26-29,illus. Jan.1946. 26 Ag8

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1418. CULBERTSON, R. E. Reed Canary grass (Phalaris arundinacea). Rev. Nac. de Agr. 38(485):33-34. Jan.1945. 9.4 R32
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1429. GONZALEZ, A. DE J. Formación y conservación de los pastos. Cuba Ganad. 10(6):15-16,illus. Feb.1951. 49 C89

Guineagrass and Paragrass.

1430. GONZALEZ, A. DE J. La yerba camagüeyana. Rev. de Agr. Trop. [Salvador] 14(25):64-66. 1947. 8 R326

Pitted bluestem, (Andropogon pertusus.) A good forage plant for cattle. Chemical analysis and digestibility are given.

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Chemical analysis, nutritive value used as hay or forage. Includes reference to Paragrass and other nutrients for beef cattle.

1432. GREGORY, G. B. Guatemala grass as a fodder crop in St. Lucia. Trop. Agr. [Trinidad] 19:192-193. Oct.1942. 26 T754

1433. GUAYADEEN, K. D. A note on colonial grass [Panicum maximum coloniao]. Trop. Agr. [Trinidad] 27(1/3):59-60. Jan./Mar. 1950. 26 T754

1434. GWYNNE, W. P. Pangola grass [Digitaria decumbens] pastures urged; central-Florida observer evaluates winter grass. Fla. Grower 55(12a):25. Dec.1947. 80 F6622

1435. HAMMOND, M. E. Chinsegut Hill [Sanctuary grazing] tests are reported; comparisons made of Pangola grass and Bahia grass. Fla. Cattleman 12(11):20-22. Aug.1948. 43.8 F66

U. S. Dept. of Agriculture and Fla. Agricultural Experiment Station cooperating.

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1437. HERNANDEZ S., A. Estudio sobre algunas gramineas forrajeras de clima calido; variacion de los nutrientes de acuerdo con la edad y determinación del punto más apropiado de corte. Janeiro (Eriochloa polystachya). Agro[El Valle]2(1):37-44. Jan./Feb.1947. 9.95 Ag83

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Series of five articles based on experience at the Range Cattle Experiment Station, Ona, Fla.

Contents: I. Preparation of soil, choice of land, are explained by writers; II. Evaluation of grasses given by researchers; III. If you know how to set out improved grass, don't read this article; IV. Fertilizer and lime are necessary to pastures, minor elements needed; V. Overgrazing danger to Florida cattle herds.

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337-343,illus. Ref. Aug.1949. 4 Am34P

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With special reference to Sudangrass.

1445. HUTSON, H. C., and POTTS, R. C. Forage sorghum variety test in east Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1220,2 p., Jan.27,1950. 100 T31P

1446. IMPERIAL AGRICULTURAL BUREAUX. Imperata cylindrica [cogongrass]; taxonomy, distribution, economic significance and control. Imp. Agr. Bur. Joint P. 7,63 p.,map. May 1944. 10 Im73
Bibliography: p.58-63.
Partial contents: Ch. 1, Taxonomy, description and distribution of species and varieties, by C. E. Hubbard; Ch. 2, Genetics and cytology, by R. O. Whyte; Ch. 3, Anatomy and reproduction, by D. Brown; Ch. 4, Ecology, by A. P. Gray; Ch. 6, Grazing and fodder value, by D. Brown; Ch. 8, Methods of control, by A. P. Gray; Ch. 9, List of common names.

1447. IVANOFF, S. S., and others. Oat varieties compared in Station tests. Miss. Farm Res. [Miss. Sta.] 12(8):1,2. Aug.1949. 100 M69Mi
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1449. JIMENEZ, R. Aprovechamiento de las vacas mediante el cultivo del pasto gordura. Vida Rur. [Bogota] 4(45):33-34. Apr.1943. 9.4 V66
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1463. LANCASTER, R. R. Rhodesgrass for hay and pasture in south Texas. Tex. Agr. Col. Ext. C. 245,8 p.,illus. 1949. 275.29 T312C

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1466. LEUKEL, R. W., MARTIN, J. H., and LEFEBVRE, C. L. Sorghum diseases and their control. U. S. D. A. Farmers' B. 1959, 46 p.,illus. Oct.1944. 1 Ag84F

1467. LEUKEL, W. A., and STOKES, W. E. Establishing carpet grass under range conditions by controlled burning and seeding. Fla. Agr. Expt. Sta. Press B. 571,2 p. June 1942. 100 F66S

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1473. MARTIN, J. H., and STEPHENS, J. C. The culture and use of sorghums for forage. U. S. D. A. Farmers' B. 1844,42 p.,illus. Mar.1940. 1 Ag84F

1474. MARTIN, J. H., COLE, J. S., and SEMPLE, A. T. Growing and feeding grain sorghums. U. S. D. A. Farmers' B. 1764,rev.,46 p., illus. 1946. 1 Ag84F

1475. MILLER, E. A. Steps in growing Sudan grass [in Texas]. Tex. Agr. Col. Ext. C. 154,[rev.]2 p. June 1943. 275.29 T312C

1476. MORRIS, D. Giant blue panic grass [Panicum antidotale]; recent grass discovery shows 22 percent protein value. Coastal Cattleman 10(9):5-6. Nov.1944. 43.8 C63

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Teosinte, a forage plant for the future in Brazil.

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1480. OTERO, J. R. Um capim resistente à tosa e ao pisoteio. Granja [Porto Alegre] 5(42):18. Apr.1949. 9.2 G76

Bahiagrass.

1481. OWEN, C. R. Factors affecting yield and quality of Dallis grass seed produced in Louisiana. (Abs.) Assoc. South. Agr. Workers. Proc. 44:93-94. 1947. 4 C82

1482. PAEZ C., J. El pasto Rhodes [Chloris gayana]. Vida Agr. [Lima]26:841,843,845-848. Oct.1949. 9.8 V66

Studies at the Estación Experimental Agricola de La Molina in Peru and culture in Argentina and Brazil.

1483. PARRIS, G. K. Eye-spot of Napier grass in Hawaii, caused by Helminthosporium sacchari. Phytopathology 32:46-63,illus. Ref. Jan.1942. 464.8 P56

Control measures: Replacing with a resistant variety of Napiergrass, known as Merkergrass, or selections of Napier and Merker crosses. Author considers the causal agent, Helminthosporium sacchari the same as H. ocellum causing the disease in Florida, and believes, therefore, that the latter is a synonym.

1484. PARRIS, G. K., and RIPPERTON, J. C. A new disease of Napier grass in Hawaii. Hawaii. Agr. Expt. Sta. Prog. Notes 15,11 p. Sept.1940. 100 H313P

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1485. PARRIS, G. K., and RIPPERTON, J. C. Reactions of Napier grass, Merker grass, and their crosses to Helminthosporium eye spot. Phytopathology 31:855. Sept.1941. 464.8 P56

Natural infection, supplemented by artificial inoculation of healthy

plants in the greenhouse.

1486. PATERSON, D. D. The utilisation of cultivated fodder grasses in Trinidad. Trop. Agr. [Trinidad] 18:226-228. Nov.1941. 26 T754

1487. PENDLETON, R. L. Cogon grass, Imperata cylindrica, in the Western Hemisphere. Amer. Soc. Agron. J. 40:1047-1049. Nov. 1948. 4 Am34P

Discussed as a potential weed and of little value as forage.

1488. PIEDADE, A. Capim de Rhodes. Rev. de Agr. [Piracicaba] 21(1/2):40-48,illus. Jan./Feb.1946. 9.2 R324

Culture of Rhodesgrass in Brazil, history of its introduction, chemical analysis, nutritive value and its use as hay, silage, and green forage.

1489. PINTO, A. Zacate calinguero [Melinis minutiflora]. Honduras Agr. 1(12/13 i. e. 13/14):4. Nov./Dec.1945. 8 H753

From Nueva Octepeque. Chemical analysis and method of cultivation are given as well as its chief advantages and characteristics.

1490. POPE, J. B. Little bluestem meadows in east Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 1020,1 p. July 9,1946. 100 T31P

1491. POPENOE, W. Influencias del clima y el suelo en el cultivo de guineo. Agr. Costarricense 7:349-351. Nov./Dec.1949. 8 Ag895

1492. POTTS, R. C., and HENSEL, R. L. Blue panic grass trials in Texas. Tex. Agr. Expt. Sta. Prog. Rpt. 922,2 p. Jan.3,1945. 100 T31P

Synonyms: giant blue Panicum; giant Panicum.

1493. POTTS, R. C., and HENSEL, R. L. Rhodes grass in Texas. Tex. Agr. Expt. Sta. C. 116,17 p.,illus. Sept.1947. 100 T31S

1494. QUINBY, J. R., and KARPER, R. E. The effect of different alleles on the growth of sorghum hybrids. Amer. Soc. Agron. J. 40: 255-259. Ref. Mar.1948. 4 Am34P

1495. QUINBY, J. R. Forage and seed yields of sorghum varieties. Tex. Agr. Expt. Sta. Prog. Rpt.991,3 p. Mar.1946. 100 T31P

A table shows the yields of 45 varieties.

1496. QUINBY, J. R., and KARPER, R. E. The inheritance of three genes that influence time of floral initiation and maturity date in milo. Amer. Soc. Agron. J. 37:916-936,illus. Ref. Nov.1945. 4 Am34P

Considered as means for determining varietal adaptation to latitude, altitude, and climate.

1497. RAPP, K. E. Carbohydrate metabolism of Johnson grass. Amer. Soc. Agron. J. 39:869-873,illus. Ref. Oct.1947. 4 Am34P

1498. RENSON, C. Forraje verde para la estación seca; el Tripsacum latifolium Hitchc. Rev. Ganad. [San Salvador] 4(45/47): 26-29. Aug./Oct.1943. 8 R3292

1499. SALAVERRA M., A. El zacate gordura [molassesgrass]. Rev. Ganad. [San Salvador] 4(40/41):26-27. Mar./Apr.1943. 8 R3292

1500. SASSER, J. R. Grass [Eragrostis curvula] turns sandy acres into new pasture. Fla. Grower 58(5):7,11,17,illus. May 1950. 80 F6622

Weeping lovegrass provides good winter grazing for cattle.

1501. SILVEUS, W. A. Grasses; classification and description of species of Paspalum and Panicum in the United States; Drawings by L. M. Hagner. San Antonio, The author, 1942. 526 p.,illus. 452.3 Si3

Describes 52 species of Paspalum, mostly in the Southeast; 165 Panicum species, confined mostly to the warmer regions.

1502. SMITH, J. L. Oats on Florida farms. Fla. Agr. Col. Ext. C. 78,6 p.,folder. June 1944. 275.29 F66C

A revision of C.72.

1503. SMITH, R. B. Tabaquite grass, Ischaemum aristatum. Agr. Soc. Trinidad & Tobago. Proc. 50:335-340. Sept.1950. 8 T73

1504. SNYDER, H. Coastal Bermuda - a new southern grass. Coastal Cattleman 12(10):25-26,illus. Dec.1946. 43.8 C63

On the Gulf Coast.

1505. SQUIBB, R. L. El cultivo del pasto Sudan [Sudangrass] bajo las condiciones húmedas del trópico. Rev. de Agr. [San José] 585-587. Dec.1945. 8 Es1

Translated by J. Antonio Jimenez V.

Experiments at the Inter-American Institute of Agricultural Sciences, Turrialba, Costa Rica.

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1506. STANTON, T. R., and COFFMAN, F. A. Disease-resistant and hardy oats for the South. U. S. D. A. Farmers' B. 1947,10 p., illus. Oct.1943. 1 Ag84F

1507. STANTON, T. R. New varieties of oats from Bond crosses resistant to Victoria blight. U. S. D. A. C. 795,7 p.,illus. Ref. Oct. 1948. 1 Ag84C

Two resistant varieties developed in Florida and Louisiana.

1508. STANTON, T. R. The present status of southern oat improvement. Amer. Soc. Agron. J. 40:751-757. Aug.1948. 4 Am34P

Also considers use of oats for forage and hay.

1509. STEPHENS, J. L. Ribbed Paspalum, Paspalum malacophyllum. Amer. Soc. Agron. J. 33:855-857. Sept.1941. 4 Am34P

The probable area of usefulness appears to be in the lower Coastal Plain region of the United States.

1510. TALBOT, M. W. Johnson grass as a weed. U. S. D. A. Farmers' B. 1537,rev.,9 p.,illus. Ref. Sept.1940. 1 Ag84F

Where this grass is persistent, the author advocates its utilization for close pasturing and as a hay crop.

1511. THOMPSON, W. R. Dallis grass for Mississippi pastures. Miss. State Col. Ext. Agron. Folder 3,5 p.,illus. Sept.1948. 275.29·M68E

1512. THOMPSON, W. R. Grain sorghum for grain or grazing. Miss. State Col. Ext. Agron. Folder 9,5 p.,illus. Mar.1949. 275.29 M68E

1513. THOMPSON, W. R. Johnson grass. Miss. State Col. Ext. Agron. Folder 8,5 p.,illus. Mar.1949. 275.29 M68E

1514. TURNER, W. F. Dallis grass highly suited to coastal area. Coastal Cattleman 14(4):16. June 1948. 43.8 C63

1515. U. S. BUR. PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING. Seeds of carpet grass (Axonopus spp.) and St. Augustine grass (Stenotaphrum secundatum), by A. F. Musil. Beltsville,1948. 2 p. 1.965 F2Se343

1516. U. S. SOIL CONSERVATION SERV. WESTERN GULF REGION. How to know grass, prepared by B. W. Allred. Fort Worth, 1947. 11 p.,illus. 1.9604 H83

1517. VANCE, M. Tall fescue [Festuca elatior var. arundinacea] grass promises year-round grazing for [Gulf Coast] area. Coastal Cattleman 15(12):30-31,illus. Feb.1950. 43.8 C63

1518. *VILLAMIZAR JARAMILLO, A. El pasto elefante. Agr. Trop. 6:9-14. Jan.15,1950. 26 Ag8

Pennisetum purpureum (Napiergrass).

1519. VILLAMIZAR JARAMILLO, A. El pasto elefante. Rev. Ganad. [Habana] 10(8):36-38,illus. Aug.1950. 49 R321

Napiergrass in Colombia.

*Not examined.

1520. VINALL, H. N. Sudan grass. U. S. D. A. Farmers' B. 1126, rev.,23 p.,illus. Apr.1940. 1 Ag84F

1521. WASSON, R. A. Growing Sudan grass in Louisiana. La. Agr. Col. Ext. L. 14,4 p. Oct.1946,reprinted Dec.1947. 275.29 L93E1
Formerly La. Agr. Col. Ext. C. 263,4 p. Oct.1946. 275.29 L93C
Supersedes Important steps in growing Sudan grass, by R. A. Wasson and J. F. Percy. La. Agr. Col. Ext. Agron. Ser. 6,2 p. Feb.1942. 275.29 L93Ag

1522. WASSON, R. A., and MONROE, W. E. Louisiana Dallis grass. La. Agr. Col. Ext. P. 1001,3 p. July 1949. 275.29 L93P

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1642. STURKIE, D. G., and KUMMER, F. A. Use of a hammer mill to hull and scarify Lespedeza sericea seed. Ala. Agr. Expt. Sta. Mimeog. Ser. 2,4 p. Mar.1944. 100 AL1M

1643. TAKAHASHI, M., and RIPPERTON, J. C. Koa haole (Leucaena glauca); its establishment, culture and utilization as a forage crop [in Hawaii]. Hawaii. Agr. Expt. Sta. B. 100,56 p.,illus. Ref. June 1949. 100 H313

Other forage legumes, p.45-51.

Koa haole considered especially desirable for fattening beef cattle.

1644. TELFORD, E. A., and others. Más datos sobre el kudzu tropical. Hacienda 43(7):50,52,68,illus. July 1948. 6 H11

A. J. Loustalot, N. F. Childers, and E. P. Hume, joint authors.

Experiments as forage with Guernseys and oxen. Considered as forage for livestock in general. Local cultural methods, soils, and weather conditions are discussed.

1645. TELFORD, E. A., and CHILDERS, N. F. Tropical kudzu. Agr. Amer. 5:210-211. Nov.1945. 1 F752A

Also in Spanish, translated by A. Arbelaez Manrique, with title, Una especie tropical de la leguminosa "kudzu." in Agr. Trop. 2(3):9-12. Apr.1946. 26 Ag8

Note added by the translator, p.9-10.

1646. TELFORD, E. A., and CHILDERS, N. F. Tropical kudzu in Puerto Rico. P. R. (Mayaguez) Fed. Expt. Sta. C. 27,29 p.,illus. Ref. Mar.1947. 1 Ex65

A shorter account appeared previously in Rev. de Agr. de P. R. 37: 83-89,illus. Jan./Mar.1946. 8 R325

1647. THOMPSON, W. R. Kudzu. Miss. State Col. Ext. Agron. Folder 7,5 p.,illus. Mar.1949. 275.29 M68E

1648. THOMPSON, W. R. Lespedeza. Miss. State Col. Ext. Agron. Folder 5,5 p.,illus. Feb.1949. 275.29 M68E

1649. THOMPSON, W. R. Lespedeza sericea. Miss. State Col. Ext. Agron. Folder 6,5 p.,illus. Mar.1949. 275.29 M68E

1650. THOMPSON, W. R. White clover for Mississippi pastures. Miss. State Col. Ext. Agron. Folder 1,5 p. Sept.1948. 275.29 M68E

1651. U. S. SOIL CONSERVATION SERV. Home production of kudzu seedlings. Spartanburg,1946. 1 p. 1.9602 H75

1652. URQUIZU VILLALBA, R. Gandul. Vaqueros 3(10):14-15. Oct.1943. 43.8 V41

Pigeonpea, as feed in Cuba.

1653. VALERO ABREU, E. El gandul como planta forrajera. Rev. Ganad. [Habana] 3(2):11-12. Feb.1943. 49 R321

1654. VALERO ABREU, E. El gandul [pigeonpea]. Rev. Ganad. [Habana] 3(8/9):14-15. Aug./Sept.1943. 49 R321

1655. VINCENT, N., FILHO. O valor forrageiro do feijao mucuna. Soc. Rur. Bras. Rev. 23(273):50-51,illus. May 1943. 9.2 B733

Velvetbean (Stizolobium atterrimum).

1656. VOLK, G. M., WILSON, G. C., and BLASER, R. E. The relative availability of waste pond phosphate [in Florida] as a source

of phosphorus and calcium for [white] clover. Soil Sci. Soc. Fla. Proc. 4-B:64-68. 1942,pub.1949. 56.9 So32

1657. WARNER, J. D., and BLASER, R. E. Annual lespedeza for Florida pastures. Fla. Agr. Expt. Sta. B. 375,22 p. Sept.1942. 100 F66S

Contents: For northwest Florida, by J. D. Warner; For peninsular Florida, by R. E. Blaser.

Discusses varieties and their performance.

1658. WASSON, R. A., and PERCY, J. F. Facts about [Thunberg] kudzu. La. Agr. Col. Ext. Agron. Ser. 8,4 p. Apr.1942. 275.29 L93Ag

1659. WASSON, R. A., and PERCY, J. F. Facts about perennial [sericea] lespedeza. La. Agr. Col. Ext. Agron. Ser. 9,2 p. Apr.1942. 275.29 L93Ag

1660. WASSON, R. A. Growing allyce clover in Louisiana. La. Agr. Col. Ext. C. 266,3 p. Oct.1946. 275.29 L93C

Supersedes allyce clover (Alysicarpus vaganalis), by R. A. Wasson and J. F. Percy. La. Agr. Col. Ext. Agron. Ser. 12,2 p. Mar.1942. 275.29 L93Ag

1661. WASSON, R. A. Growing lespedeza in Louisiana. La. Agr. Col. Ext. C. 265,6 p. Oct.1946. 275.29 L93C

Supersedes Louisiana farmer grows lespedeza for feed, by R. A. Wasson and J. F. Percy. La. Agr. Col. Ext. Agron. Ser. 10,4 p. Apr. 1942. 275.29 L93Ag

1662. WASSON, R. A. Growing white Dutch clover in Louisiana. La. Agr. Col. Ext. C. 262,6 p. Oct.1946. 275.29 L93C

U. S. Dept. of Agriculture cooperating.

Seed harvesting recommendations, p.3-5, for the most part, were contributed by W. T. Nolin.

1663. WASSON, R. A., and PERCY, J. F. The Singletary pea; Louisiana's most popular winter legume. La. Agr. Col. Ext. C. 249, rev.,4 p. July 1943. 275.29 L93C

U. S. Dept. of Agriculture cooperating.

1664. WATKINS, J. M. El lablab [Hyacinth Dolichos]. Agr. Venezol. 9(109/110):12-15. May/June 1945. 9.95 Ag8

1665. WATKINS, J. M. Lablab [Hyacinth Dolichos] para todos los usos. Hacienda 40:238-239,illus. May 1945. 6 H11

A forage plant of the Tropics, especially in El Salvador.

Poisonous plants

1666. ALVIM-CARNEIRO, P. DE T. Plantas venenosas e sua ocurrência em Minas Gerais. Rev. Ceres 6:221-256,illus. July/Aug. 1945. Ref. 9.2 C332

Toxicity to animals is discussed for each poisonous plant listed.

1667. ARNOLD, H. L. Poisonous plants of Hawaii. Honolulu, Tongg,1944. 71 p. Ref. 452.83 Ar6

Indicates those which are poisonous if eaten by livestock.

1668. DEPARTAMENTO CIENTIFICO DEL LABORATORIO CUP. Algunas plantas tóxicas del suelo colombiano. Rev. Nac. de Agr. 39 (492):62. Sept./Oct.1945. 9.4 R32

1669. EMMEL, M. W. Cocklebur [Xanthium] poisoning among livestock. Your Farm 2(8):56-57. June 1944. 6 Y8

The various species do not differ materially in their toxic properties. Calves are especially likely to be poisoned by the young seedlings.

1670. EMMEL, M. W. Livestock poisoning by Crotalaria spectabilis. Vet. Med. 38:255-257,illus. July 1943. 41.8 M69

Describes in some detail the acute and chronic types of poisoning in cattle.

1671. EMMEL, M. W. The toxic principle of Aleurites fordi Hemsl. Amer. Vet. Med. Assoc. J. 103:162. Sept.1943. 41.8 Am3

1672. EMMEL, M. W. The toxic principle of the [different] species [of] Aleurites. Amer. Vet. Med. Assoc. J. 111:386-387. Nov. 1947. 41.8 Am3

Through experimentation, commercial tung meal was completely detoxified.

1673. EMMEL, M. W. The toxic principle of the tung tree. Fla. Agr. Expt. Sta. B. 431,35 p.,illus. Ref. June 1947. 100 F66S

Determination of the nature of the toxic substances present in the commercial pressed cake and possible methods of detoxification.

1674. EMMEL, M. W., SANDERS, D. A., and SWANSON, L. E. The toxicity of foliage of Aleurites fordi for cattle. Amer. Vet. Med. Assoc. J. 101:136-137. Aug.1942. 41.8 Am3

1675. EMMEL, M. W. The toxicity of Glottidium vesicarium (Jacq.) Harper [bagpod] for cattle. Amer. Vet. Med. Assoc. J. 104: 222-223. Apr.1944. 41.8 Am3

Known locally in Florida as coffee-bean weed.

1676. ERICKSON, J. L. E., and BROWN, J. H., JR. A study of the toxic properties of tung nuts. J. Pharmacol. & Expt. Ther. 74:114-117. Feb.1942. 396.8 J82

Outlines method for detoxification of tung meal.

1677. GONZALEZ SOL, R. Muertes súbitas de ganado; poáceas productoras de ácido cianhídrico. Rev. Ganad. [San Salvador] 6(74/75): 25-26. Jan./Feb.1946. 8 R3292

From Diario de Hoy.

The sudden death of cattle produced by poisonous plants.

1678. HAYES, W. F. Probable Dallis grass poisoning. Tex. Vet. B. 10(1):5-6. Jan.1948. 41.8 T31

Diagnosed as poisoning by ergot.

1679. HOEHNE, F. C. Uma planta brasileira altamente venenosa (Pessegueiro bravo, Prunus sphaerocarpa SW). Chacaras e Quintais 72:616-617,illus. Nov.15,1945. 9.2 C34

1680. HOGG, P. G., and AHLGREN, H. L. A rapid method for determining hydrocyanic acid content of single plants of Sudan grass. Amer. Soc. Agron. J. 34:199-200. Feb.1942. 4 Am34P

1681. HORNE, C. H. Dallis grass poisoning. Tex. Vet. B. 10(3): 1. Mar.1948. 41.8 T31

Questions diagnosis of ergot poisoning given by W. F. Hayes in his article, Probable Dallisgrass poisoning. See item 1678.

1682. KATZ, C. Estudio de praderas y potreros en la ganadería Ecuatoriana. Ecuador. Cám. de Agr. de la Primera Zona. Rev. 6: 616-619,620-659,illus. Mar./Apr.,May/June 1943. 9.5 Ec96

1683. KIDDER, R. W., BEARDSLEY, D. W., and ERWIN, T. C. Photosensitis control is now possible, Everglades Experiment Station says. Disease believed to come largely from Bermuda grass in cases where grass grows thick and is heavily grazed. Fla. Cattleman 14 (8):68-71,illus. May 1950. 43.8 F66

1684. LARTER, L. N. H. Poisonous plants in Jamaica. Glimpses Jamaican Nat. Hist. 2:47-50. 1946. 409.9 N21

Includes plants injurious to cattle.

1685. MACEDO, J. N. O envenenamento do gado pelo mio-mio. Rev. Agron. [Porto Alegre] 11(121/122):54. Jan./Feb.1947. 9.2 R325

Poisoning of cattle by miomio (Baccharis).

1686. MACHADO, O., and OCCHIONI, P. Contribuição ao estudo das plantas cianogênicas do Brasil. Rodriguesia 7(16):35-44,illus. Ref. Sept./Dec.1943. 442.8 R61

Tanaecium nocturnum poisonous to livestock.

1687. MATHEWS, F. P. The toxicity of a spurge (Phyllanthus abnormis) for cattle, sheep, and goats. Cornell Vet. 35:336-346,illus. Oct.1945. 41.8 C81

Type specimen is from the Gulf Coast Area of Texas. Cattle appear to be the least resistant animals.

1688. MORAES MELLO, E. M., and FERNANDES, J. S. Contribuição ao estudo das plantas tóxicas Brasileiras. Rio de Janeiro, Serviço de Informação Agrícola, Ministério da Agricultura,1941[i.e. 1942]106 p.,illus. 457.2 M792

Reactions on goats, guinea pigs, and Holandes cattle given.

1689. NORDFELDT, S., and YOUNGE, O. R. Toxicity of creeping indigo to livestock. Hawaii. Agr. Expt. Sta. Prog. Notes 55,2 p. Sept. 1949. 100 H313P

Conditions described are being further investigated at the Hawaiian Station, to determine the toxic agent and to establish safe limits of tolerance in forage. Attempts to secure strains low in toxicity are in progress.

1690. RATERA, E. L. Plantas tóxicas para el ganado más comunes en nuestros campos. Bolsa de Com., Rosario. Rev. 33(801): 11-13. May 31,1945. 287 R71

Includes species found to the north of Argentina.

1691. RIVAS LARRALDE, A. La nõngue[Datura stramonium]y la hierba mora[Solanum nigrum]. Agr. Venezol. 8(97/98):45,46. May/June 1944. 9.95 Ag8

Jimsonweed and black nightshade and the necessity for their eradication.

1692. ROCHA E SILVA, M. Em torno da etiologia da doença de fotosensibilização produzida pelo Holocalyx glaziovii. Biológico 9: 187-194,illus. Aug.1943. 442.8 B529

Photosensitization caused by Holocalyx glaziovii.

1693. ROCHA E SILVA, M. Estudos sobre plantas tóxicas no estado de São Paulo; ensaios toxicológicas com 27 plantas consideradas "suspeitas." São Paulo. Inst. Biol. Arq. 14:15-29. 1943. 442.9 Sa6

English summary.

Twenty-seven plants suspected of being toxic for livestock prove to be non-toxic for guinea pigs.

1694. ROCHA E SILVA, M. Fotosensibilização em bovinos. Biológico 6:113-117,illus. May 1940. 442.8 B529

Photosensitization in cattle in Brazil.

1695. ROCHA E SILVA, M. O problema das plantas toxicas no estado de São Paulo. [I]-II. Biológico 6:59-66,254-258,illus. Mar., Aug.1940. 442.8 B529

Includes material on plants toxic to cattle in São Paulo, Brazil, and an analysis of symptoms.

1696. ROIG Y MESA, J. T. Plantas medicinales, aromáticas o venenosas de Cuba. Habana 1945. 2 v. 456.3 R63

Useful for reference. Arranged alphabetically by name of plant. If a plant is toxic to livestock, that information is given, but such plants are not collected in a list.

1697. SANDERS, D. A. Lantana poisoning in cattle. Amer. Vet. Med. Assoc. J. 109:139-141,illus. Aug.1946. 41.8 Am3

Somewhat abbreviated in Fla. Agr. Expt. Sta. Press B. 620,4 p. Apr.1946. 100 F66S

Lantana camara, an ornamental shrub escaped from cultivation, and closely related species, common in central and southern Florida and along the Gulf Coast in general.

1698. SANDERS, D. A., EMMEL, M. W., and SWANSON, L. E. Tung tree (Aleurites fordi Hemsl.) foliage poisoning of cattle. Fla.

Agr. Expt. Sta. B. 376,8 p. Sept.1942. 100 F66S

1699. SIMMS, B. T. Dallis grass poisoning. Auburn Vet. 1:64-65,76,port. Summer 1945. 41.8 Au1

1700. SMITH, E. V. The poisonous plant problem in the Southeastern States. No. Amer. Vet. 24:345-353,illus. Ref. June 1943. 41.8 N812

1701. SMITH, E. V. Poisonous plants as a problem in southern livestock production. (Abs.) Assoc. South. Agr. Workers. Proc. 41: 104-105. 1940. 4 C82

1702. SUGG, R. S., SIMMS, B. T., and BAKER, K. G. Studies of toxicity of wild winter peas (Lathyrus hirsutus) for cattle. Vet. Med. 39:308-311,illus. Aug.1944. 41.8 M69

1703. VILARES, J. B. O gado de corte e o Mio-mio. São Paulo (State). Sec. da Agr., Indús. e Com. Dir. de Publicidade Agr. Notas Agr. 6:519-522. 1943. 31.9 Sa63

A poisonous plant, Baccharis cordifolia, of Brazil.

1704. WALKER, A. H. Poisonous range plants of Texas. Tex. Agr. Col. Ext. L. 114,2 p.,map. 1949. 275.29 T313

Adapted from Catalogue of the flora of Texas, by V. L. Cory and H. B. Parks, issued as Experiment Station B. 550,July 1937, and from material provided by O. E. Sperry.

A list of plants, giving common and scientific names, indicates regions, shown by reference to the map, from which they have been reported.

Weeds

1705. AKAMINE, E. K. Plant-growth regulators as selective herbicides. Hawaii. Agr. Expt. Sta. C. 26,43 p. Ref. Aug.1948. 100 H313

Historical study with summary of published literature. Concerned chiefly with 2,4-D

1706. BEMBOWER, W. 2,4-D as a weed killer. Hawaii. U. Agr. Ext. C. 247,11 p. Ref. June 1948. 275.29 H312Ac

1707. COSTA, A. A. DA. Plantas invasoras (subsídios para o seu estudo no Brasil). Rio de Janeiro, Ministério da Agricultura, Servico de Informação Agricola,1949. 53 p.,illus. Ref. (S.I.A. 713) 79 C82

Weeds and their control in Brazil.

1708. GUZMAN, V. L. Estudios con herbicidas. Lima. Estac. Expt. Agr. de La Molina. Divulg. Agr. 8,6 p. Aug.1947. 102.5 L622D

1709. KRAMER, M. Velhos e novos métodos de combate às ervas daninhas. Biológico 16(1):5-14. Jan.1950. 442.8 B529

Old and new methods of weed control.

1710. ROBBINS, W. W. Algunos problemas de las malas yerbas en los países latinoamericanos. Hacienda 45(1):30-31,illus. Jan.1950 6 H11

1711. RYKER, T. C. Chemicals for weed control. South. Weed Conf. Proc. 2:77-79. Mar.1949. 79.9 So8

1712. SHINNERS, L. H. Geographic limits of some alien weeds in Texas. Tex. Geog. Mag. 12(1):16-25,maps. Ref. Spring 1948. 331.8 T31

1713. SIMMONDS, F. J. Initial success of attempts at the biological control of the [pasture] weed Cordia macrostachya (Jacq.) R. and S. in Mauritius. Trop. Agr. [Trinidad] 26:135-136. Ref. July/Dec.1949. 26 T754

Chiefly through the use of the beetle, Schematiza cordiae. The weed, a native of the West Indies, where the previous experiments were carried on, was introduced accidentally into Mauritius.

1714. TAYLOR, I. T. The Macartney rose (Rosa bracteata-Windland). Tex. J. Sci. 1(4):54-56. Dec.30,1949. 470 T31
Considered a serious potential pest on the Gulf Coast range lands.

1715. THIMANN, K. V. Use of 2,4-D weed killers on woody weeds in Cuba. Science 106:87. July 25,1947. 470 Sci2
The type of weed killing valuable in reclamation of land, not previously cultivated.

1716. THIMANN, K. V. Use of 2,4-dichlorophenoxyacetic acid herbicides on some woody tropical plants. Bot. Gaz. 109:334-340. Mar.1948. Ref. 450 B652
No connection with forage mentioned but the possibility is obvious. Research was conducted in Cuba.

1717. TOBON VILLEGAS, A. Control económico de malezas. Agr. Trop. 1(2):57-59,illus. Mar.1945. 26 Ag8

1718. VAN OVERBEEK, J. Use of synthetic hormones as weed killers in tropical agriculture. Econ. Bot. 1:446-459,illus. Ref. Oct./Dec.1947. 450 Ec7
Chiefly 2,4-D.

1719. VON TEMPSKY, R. Pests of Maui's grazing range. Hawaii Farm & Home 7(4):9. Apr.1944. 25 H3191
Plants introduced in the past, turned into weeds.

1720. WHITE, D. G., and VILLAFANE, A. G. A tropical-weed killer [2,4-D]. Agr. Amer. 6:126-128. Aug.1946. 1 F752A

1721. YOUNG, T. W. Progress report on chemical weed killers. Fla. State Hort. Soc. Proc. 59:65-75. 1946. 81 F66
Effects on seed germination, grazing cattle and soils are discussed.

PRODUCTS

1722. ATHANASSOF, N. A engorda dos bovinos. São Paulo (State). Dir. de Publicidade Agr. B. de Agr. (sér. 41) 1940:405-419, illus. 9.2 Sa63
Costs and returns of beef.

1723. BRITO, O. DA S. Algumas considerações sôbre o comércio de carnes na cidade de São Paulo. B. de Indús. Anim. 12(4):41-54. Oct.1943. 49 R324
Includes beef.

1724. BYERLY, S. L. Marketing livestock in the Gulf Coast area. Coastal Cattleman 6(1):18-19. Mar.1940. 43.8 C63

1725. CORREA, O. O granuloma de Roeckl em bovinos do Rio Grande do Sul. Cong. Bras. de Vet., An. 3:927-929. 1946. 41.9 C769A
The author urges that meat found to be thus infected should be condemned.

1726. CUFF, R. L. Care in shipping cattle aids in disease prevention. Coastal Cattleman 8(11):31. Jan.1943. 43.8 C63

1727. DIAZ PACHECO, S., and ROSES, M. La distribución de carnes en Puerto Rico. P. R. (Rio Piedras). Agr. Expt. Sta. B. 65, 42 p. May 1943. 100 P83
Summary and conclusions in English.
Discusses beef from various angles, including statistics and costs and returns.

1728. ECUADORIAN COMMISSION OF INTER-AMERICAN DEVELOPMENT. Ecuador. Conf. Comns. Inter-Amer. Devlpmt. Rpts. 1,[8],89 p. 1944,pub.1946? 280.9 C7693
Cover-title.
Translation from the Spanish original.
In addition to general material on the country, there is specific information on the cattle industry, with statistics on cattle, beef con-

sumption, and leather production.

1729. FARLEY, F. W. Merchandising purebred [beef] cattle. South. Stockman 5(2):20,32-33,49. Feb.1945. 49 So83

Publicity methods in connection with sales of breeding stock.

1730. GESTIONES para la instalación de un matadero y planta frigorífica. Rev. Ganad. [San Salvador] 4(48/49):31-34. Nov./Dec. 1943. 8 R3292

1731. GLASSCOCK, R. S. Selecting, fitting and showing the beef steer. Fla. Agr. Expt. Sta. B. 421,37 p. Mar.1946. 100 F66S

1732. HOPKINS, J. A. Colombian cattle transportation. Agr. Amer. 6:63-66,75-76. Apr.1946. 1 F752A

Also, in Spanish, with title, Problemas del transporte de ganado en Colombia, in Agr. Trop. 2(5):21-27. June 1946. 26 Ag8

Gives statistics of the industry and suggests air-borne transportation of the beef from slaughter plants to be built near the fattening pastures.

1733. JOHNSON, B. R. Cattle travel by plane to Great Western Brahman [Association] show. Coastal Cattleman 15(4):19-20,illus. June 1949. 43.8 C63

1734. KNAPP, B. JR., and NORDSKOG, A. W. Heritability of live animal scores, grades, and certain carcass characteristics in beef cattle. J. Anim. Sci. 5:194-199. May 1946. 49 J82

The authors feel that the results of the study are sufficient to show that selection of breeding animals for beef quality is desirable.

1735. MARION, P. T., and others. Rate of gain and tenderness of beef. Tex. Agr. Expt. Sta. Prog. Rpt. 1125,3 p. July 1,1948. 100 T31P

O. D. Butler, S. Cover, and J. H. Jones, joint authors.

1736. MARTIN, R. G. No substitute for quality. Amer. Brahman J. 3(11):29,37. Feb.1949. 43.8 Am33

The value of following the laws of heredity for the eventual production of quality beef, especially in connection with Brahmans.

1737. MAY, W. D. Cattle hides are war material of essential value...damage to hides can be corrected. Fla. Cattleman 9(6):12,27-28,illus. Mar.1945. 43.8 F66

Includes care of the live animal to insure hide quality.

1738. MAY, W. D. Country hides and skins. Fla. Dept. Agr. B. n.s.28,rev.:240-250,illus. Nov.1949. 2 F66B

Covers processing and also care of the animal while alive in order to insure hide quality.

1739. MAY, W. D. An industrial survey of hides and skins in Florida. Fla. Engin. & Indus. Expt. Sta. B. 8,67 p.,illus. Ref. June 1945. 290.9 F66

1740. NEWELL, P. F. Classification for baby beeves [at shows and sales] and cattle grading demonstrations [on farms] in Mississippi. (Abs.) Assoc. South. Agr. Workers. Proc. 42:120-121. 1941. 4 C82

1741. PERU. JUNTA NACIONAL DE ALIMENTACION Y NUTRICION. El abastecimiento de carnes. 9 p.,Lima,1946. 50 P43

Includes statistics on slaughtering, beef consumption, and importation.

1742. RIBEIRO, P. DE A. Incidência das causas de rejeição de bovinos abatidos no Brasil Central - prejuízo causado pelas mesmas nos anos de 1946-47. Incidence of causes of beef rejections in slaughterhouses of Central Brazil - losses caused by them in 1946-47. São Paulo. U. Facul. de Med. Vet. Rev. 4(1):167-183. Dec.1949. 41.8 Sa6

English summary.

1743. SEIJO TIZOL, E. Metodos de conservar carnes en el hogar. P. R. Agr. Col. Ext. Spec. C. 2,4 p. Sept.1942. 275.29 P96Ce

1744. SHEALY, A. L. Beef breeding pays at slaughter; "cut out" value depends much on conformation. Fla. Grower 52(10):11. Oct. 1944. 80 F6622

1745. SHEALY, A. L. Better cow hides pay well. Fla. Grower 55(8a):8. Aug.1947. 80 F6622

Care of cattle and methods of processing hides to avoid defects.

1746. THORNTON, J. H. Clasificación de carne de vacuno y fijación de precios para carnes [in Peru]; estudio y comentarios. Serv. Coop. Interamer. de Prod. de Aliment. Ser. Inform. Téc. 48,13 p., illus. June 1949. 9.8 Se6

1747. VARELA, G., and ZOZAYA, J. Hallazgo de Salmonella en alimentos (estudio de viceras de bovinos y porcinos y de leches). Mex. Inst. de Salubridad y Enferm. Trop. Rev. 5:171-173. Sept.1944. 449.9 M572

English summary.

1748. VILLARES, J. B. Perspectivas do comércio de carnes da América. I-II. Rev. Rur. Bras. 24(287):26-30; (288):66-68,70,72-73. July,Aug.1944. 9.2 B733

Contents: Pt. I, Repetir-se-á; no após guerra de 1939, outra crise no comércio de carnes?; Pt. II, A produçao de carnes de boi na América em 1914 e 1939.

Pt. II includes a section on the production of beef in Brazil in 1914 and 1939 with a brief statement on the Brazilian trade in beef in 1943 and 1944.

1749. VILLARES, J. B. Produção de "Baby-beef" em São Paulo? Rev. Rur. Bras. 28(332):12-18,illus. Ref. May 1948. 9.2 B733

Item

Abattoirs. See Slaughterhouses.
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